THE

CONTRACT JOURNAL

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THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

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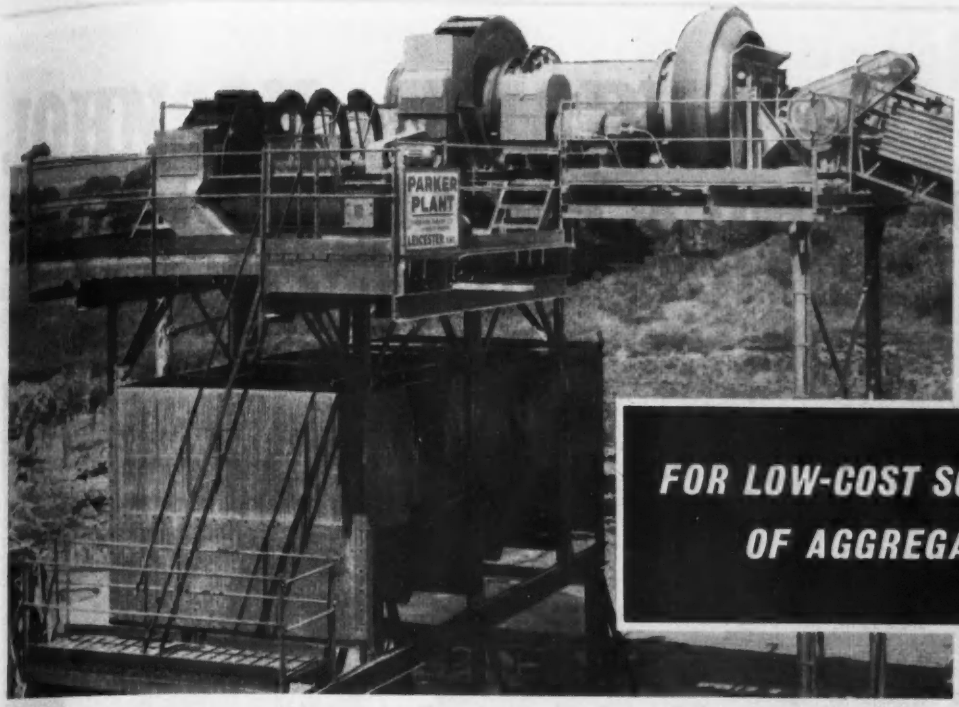

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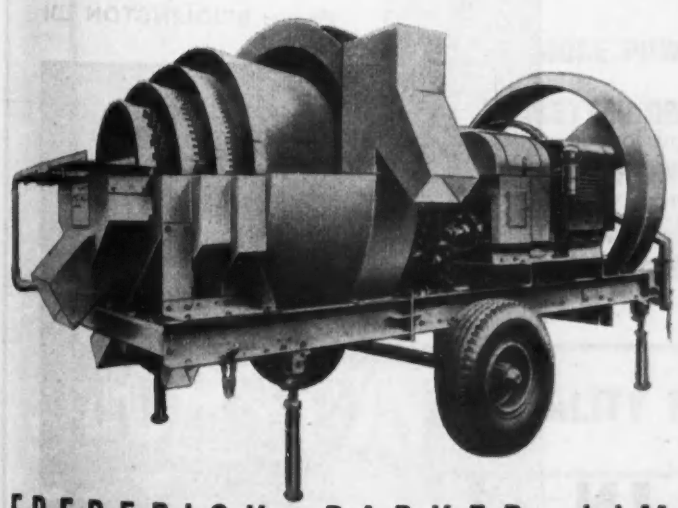

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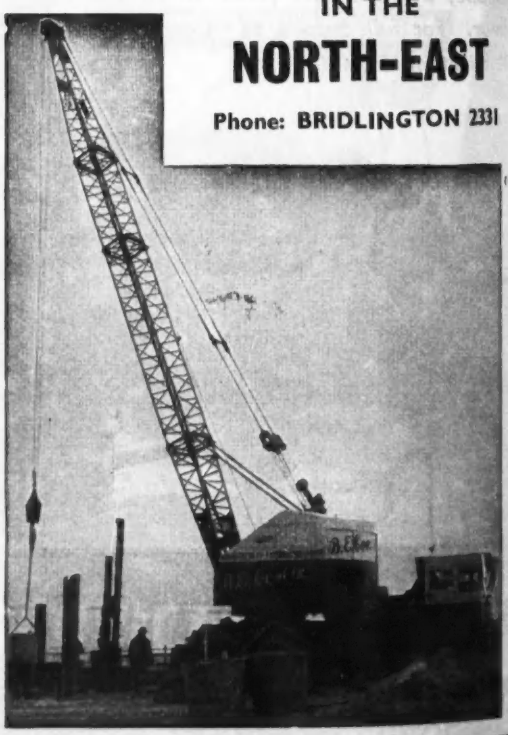

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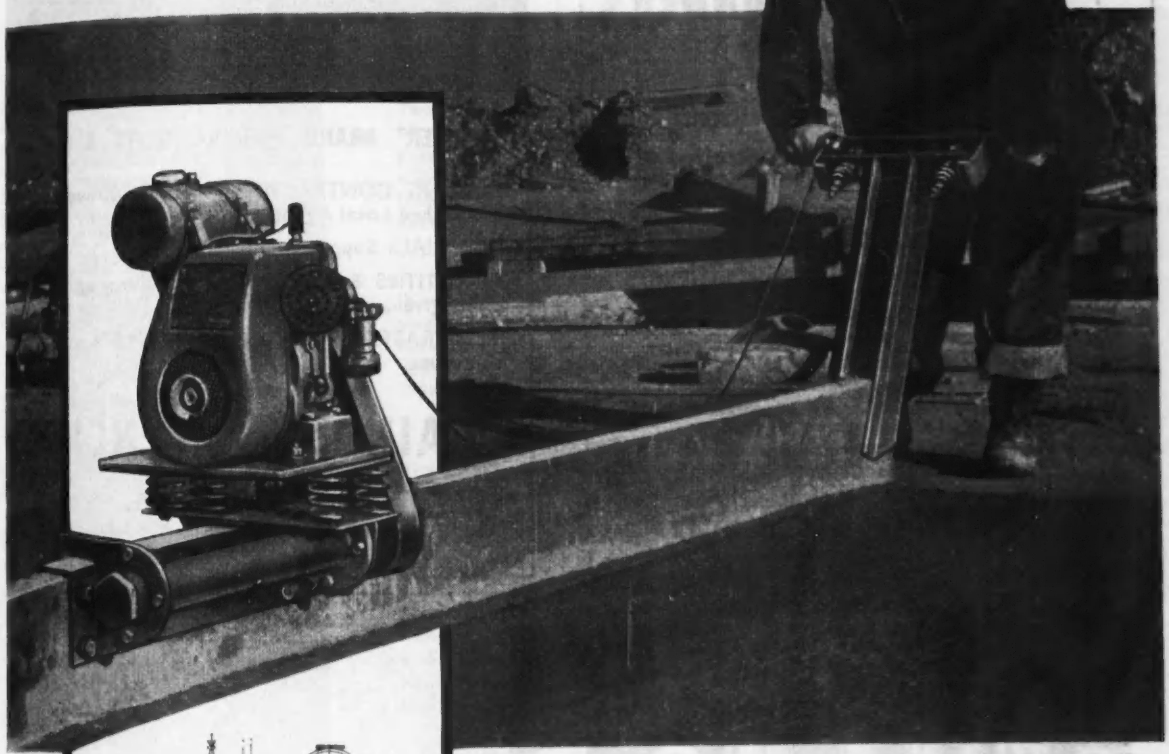

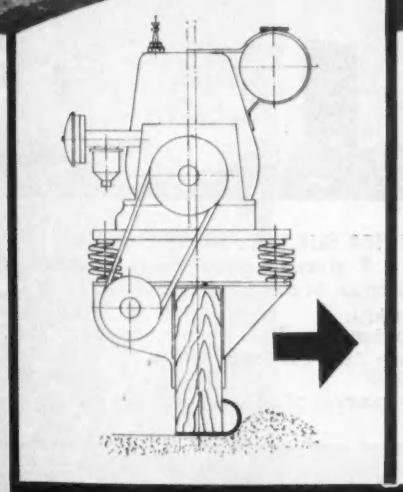

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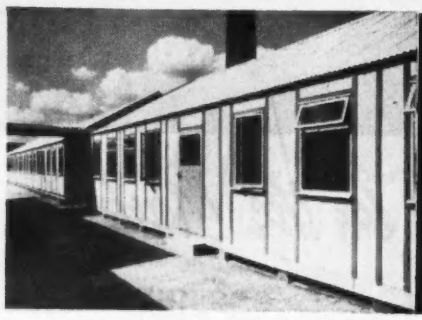

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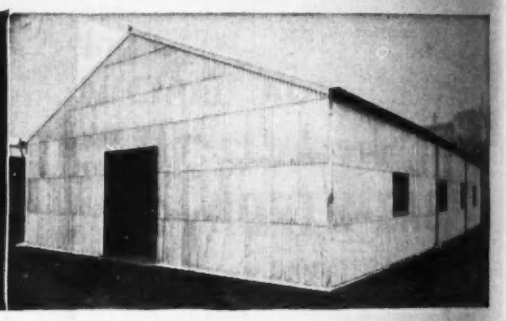

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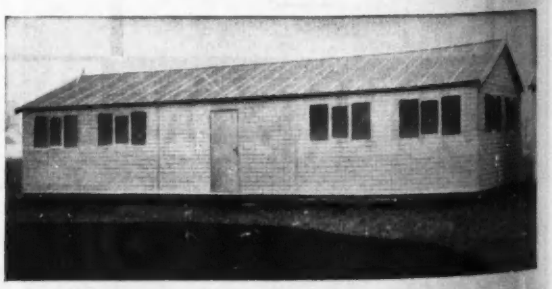

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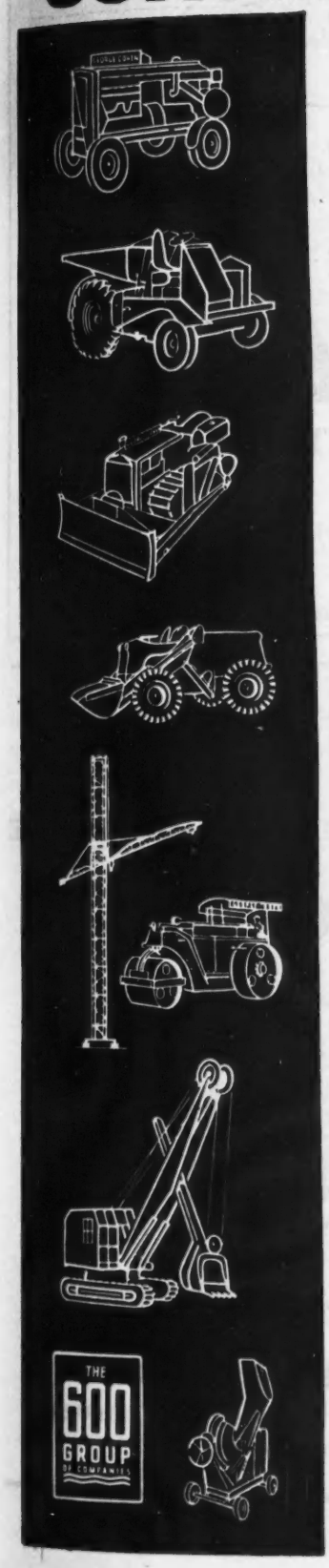

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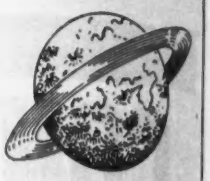

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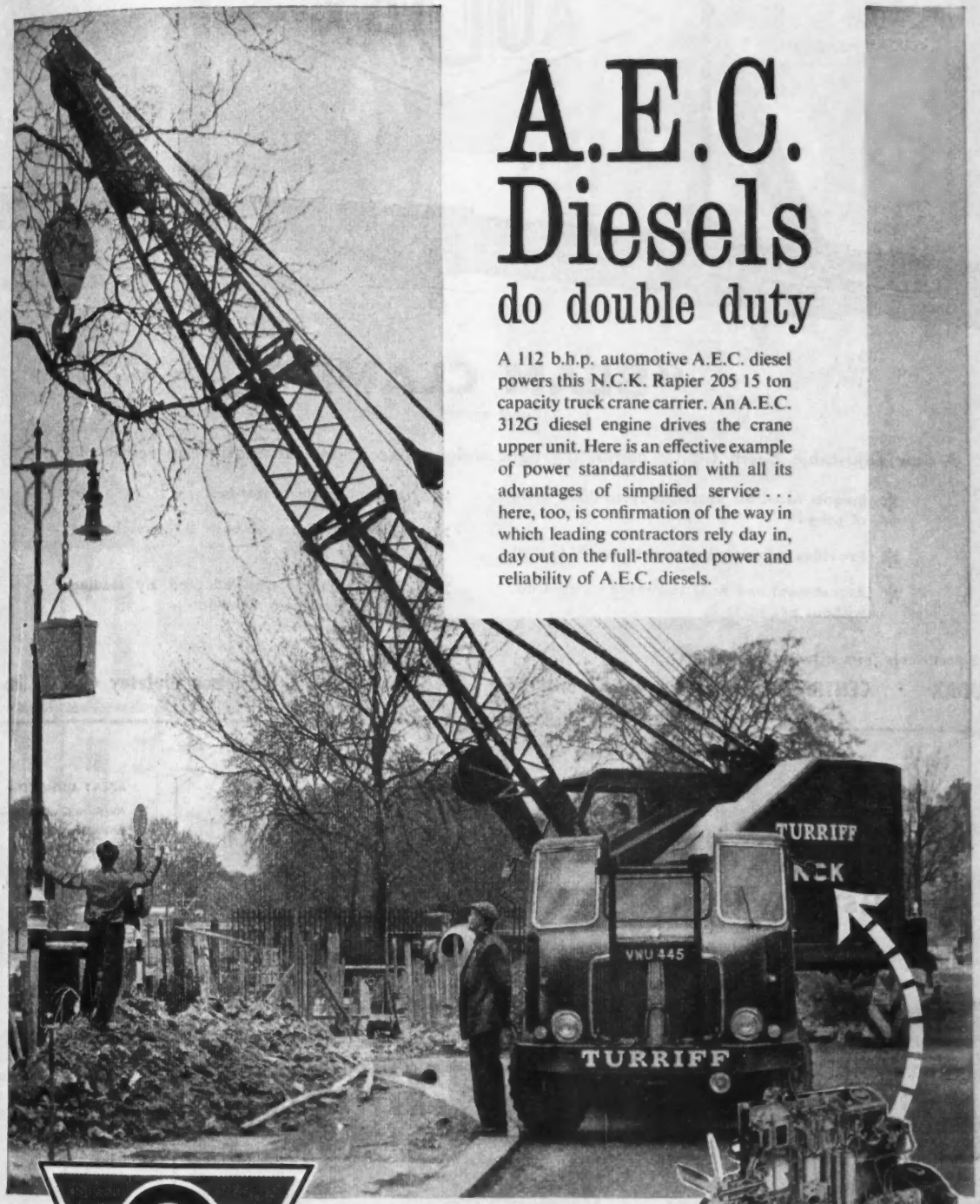

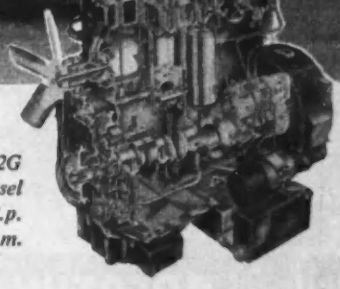

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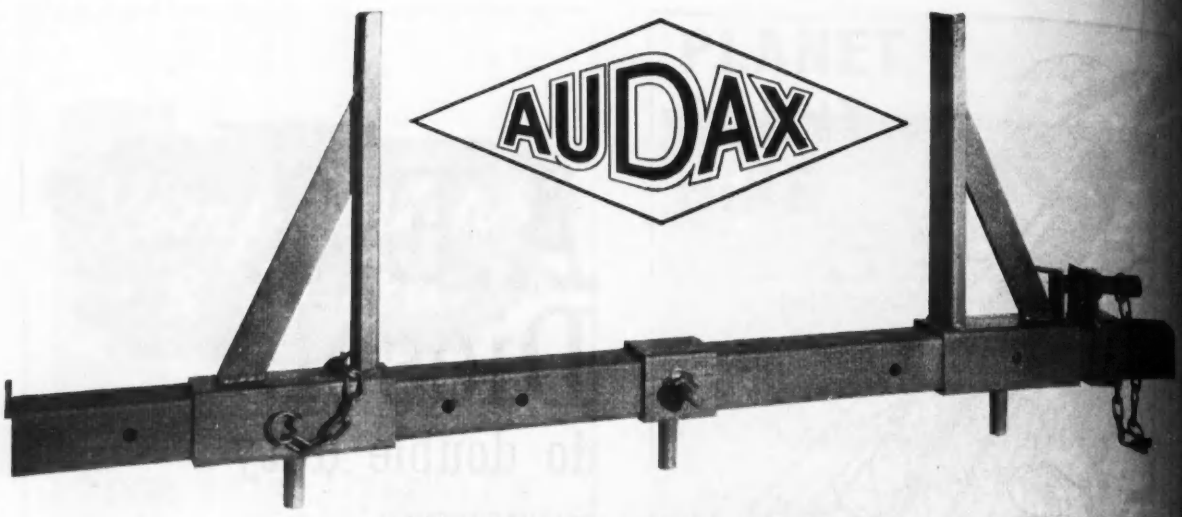

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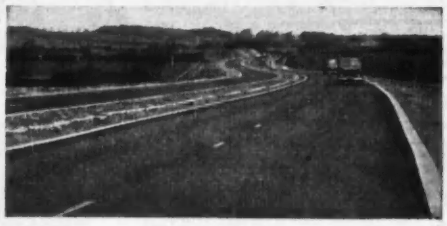

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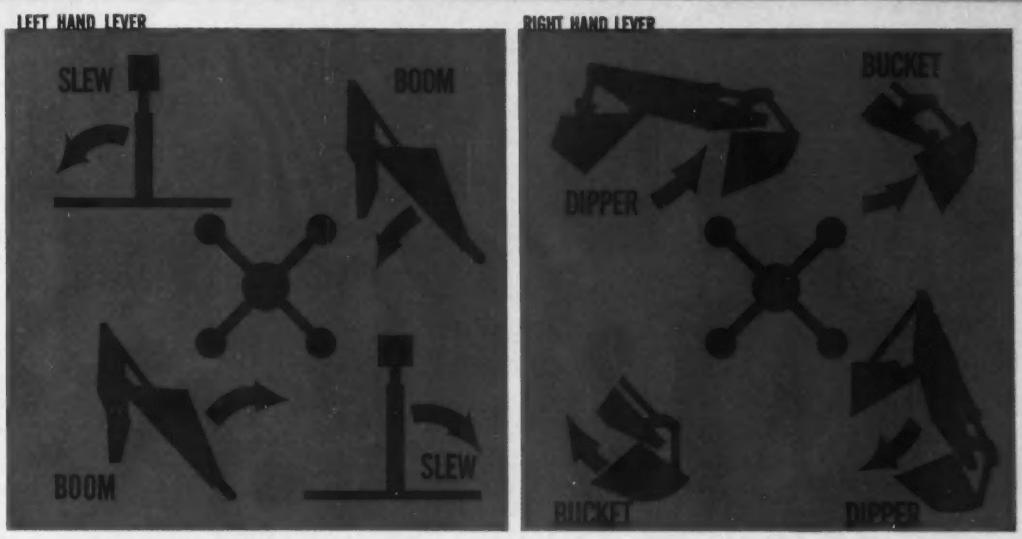

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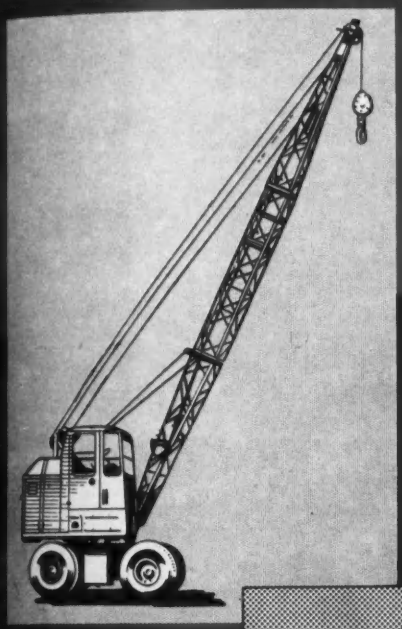

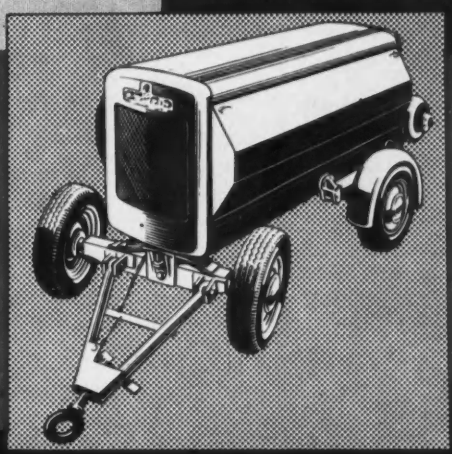

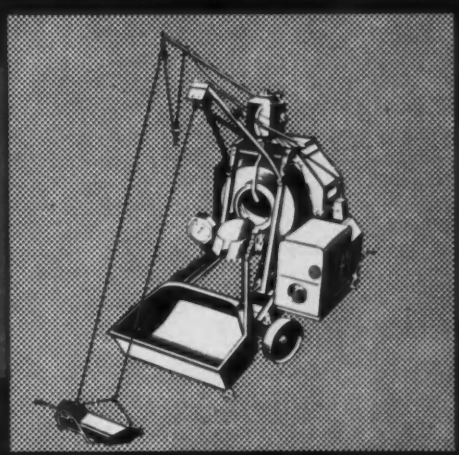

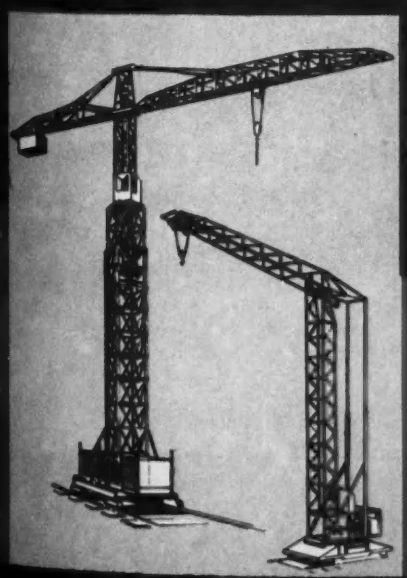

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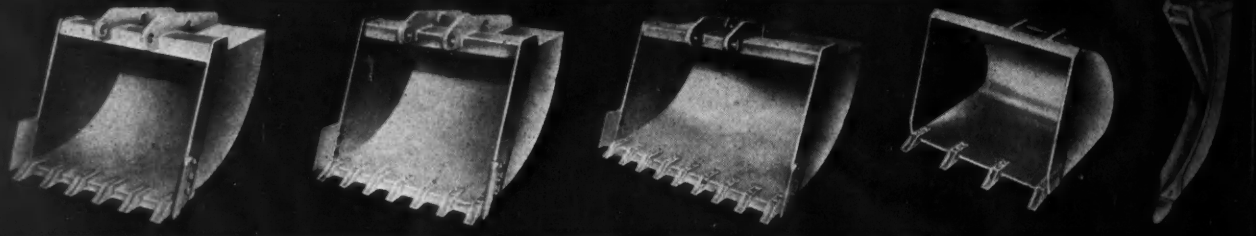

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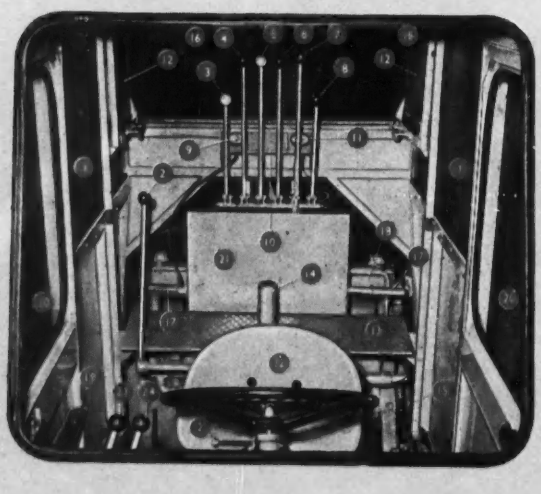

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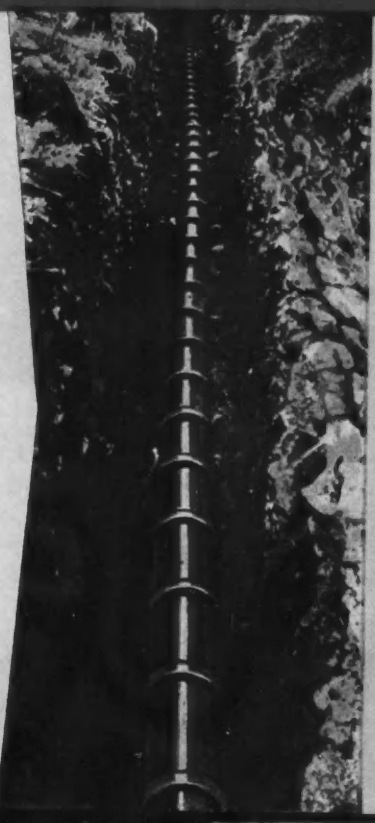

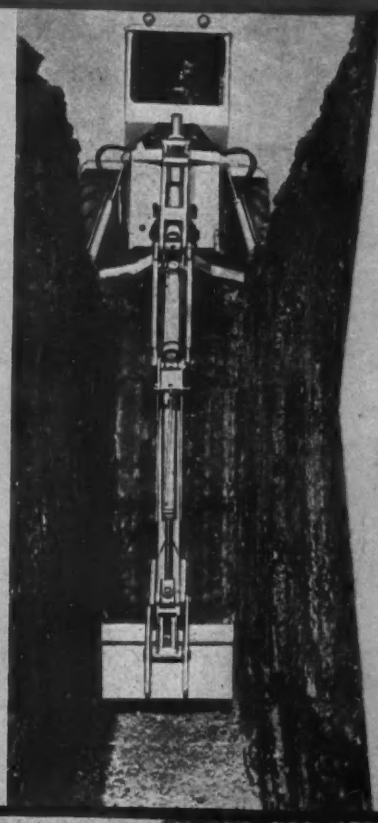

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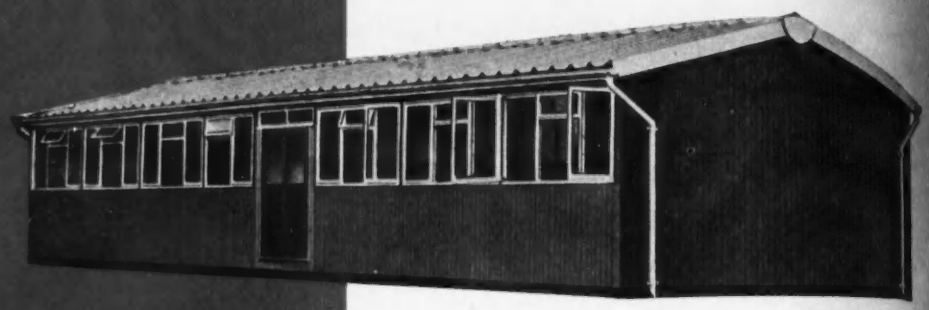

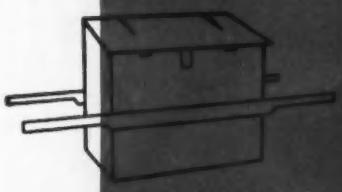

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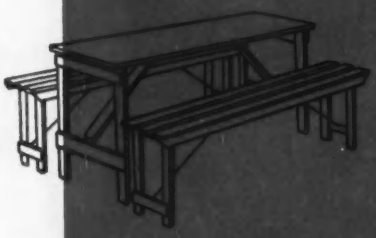

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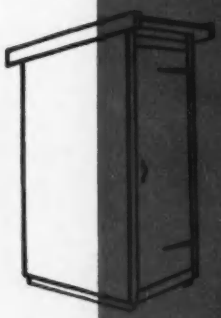

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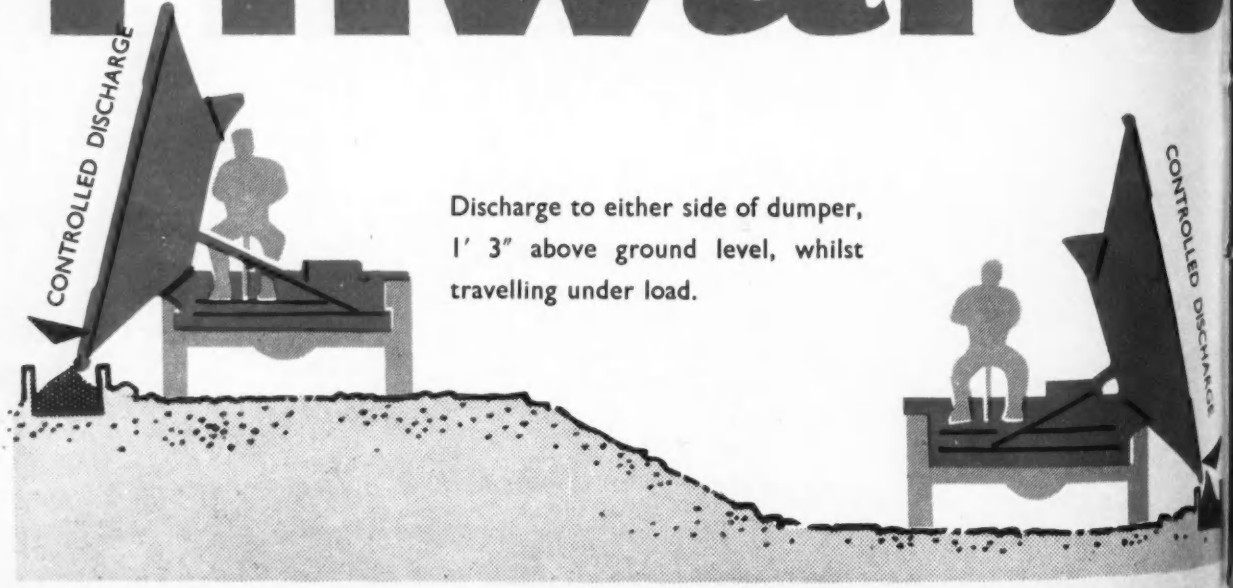

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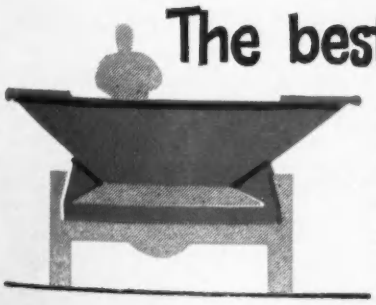

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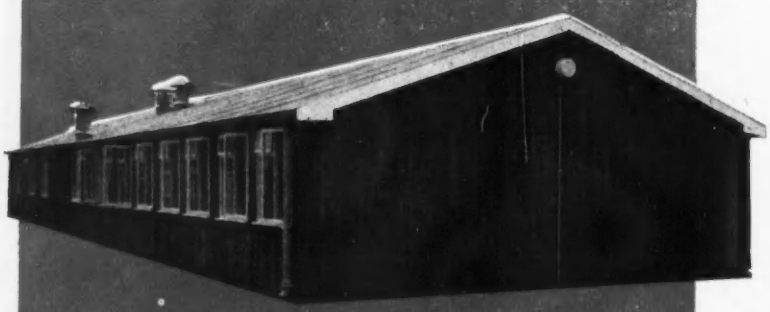

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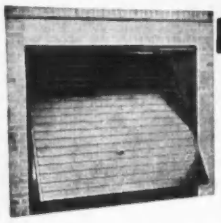

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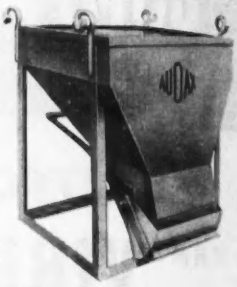

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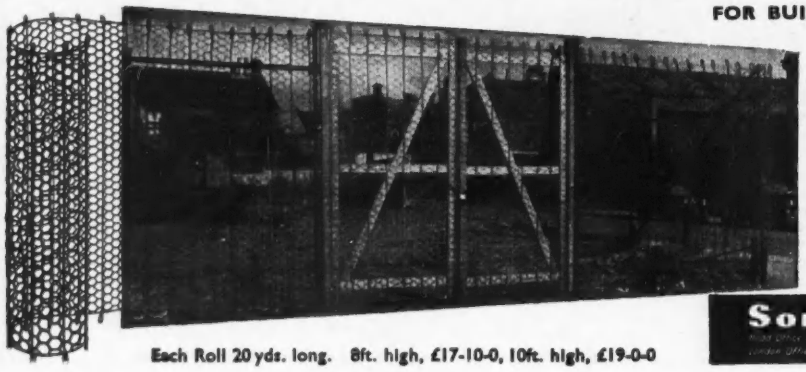

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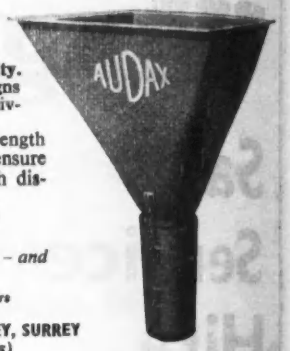

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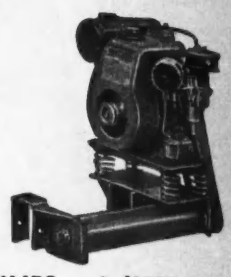

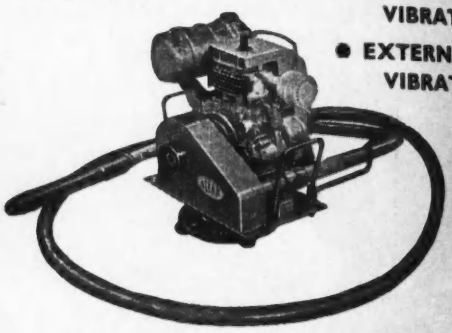

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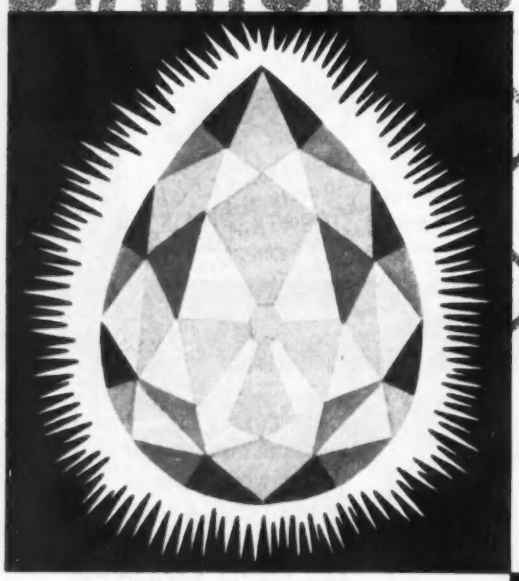

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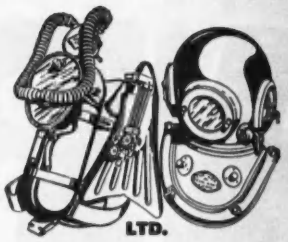

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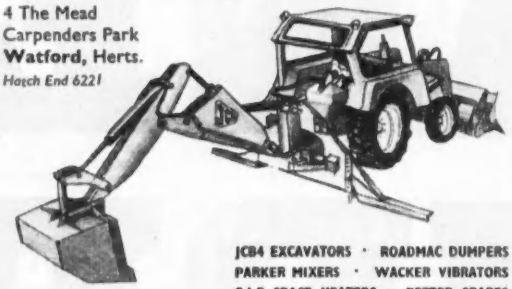

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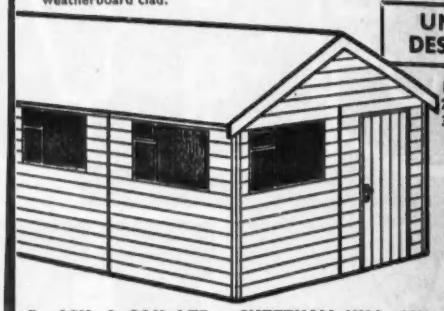

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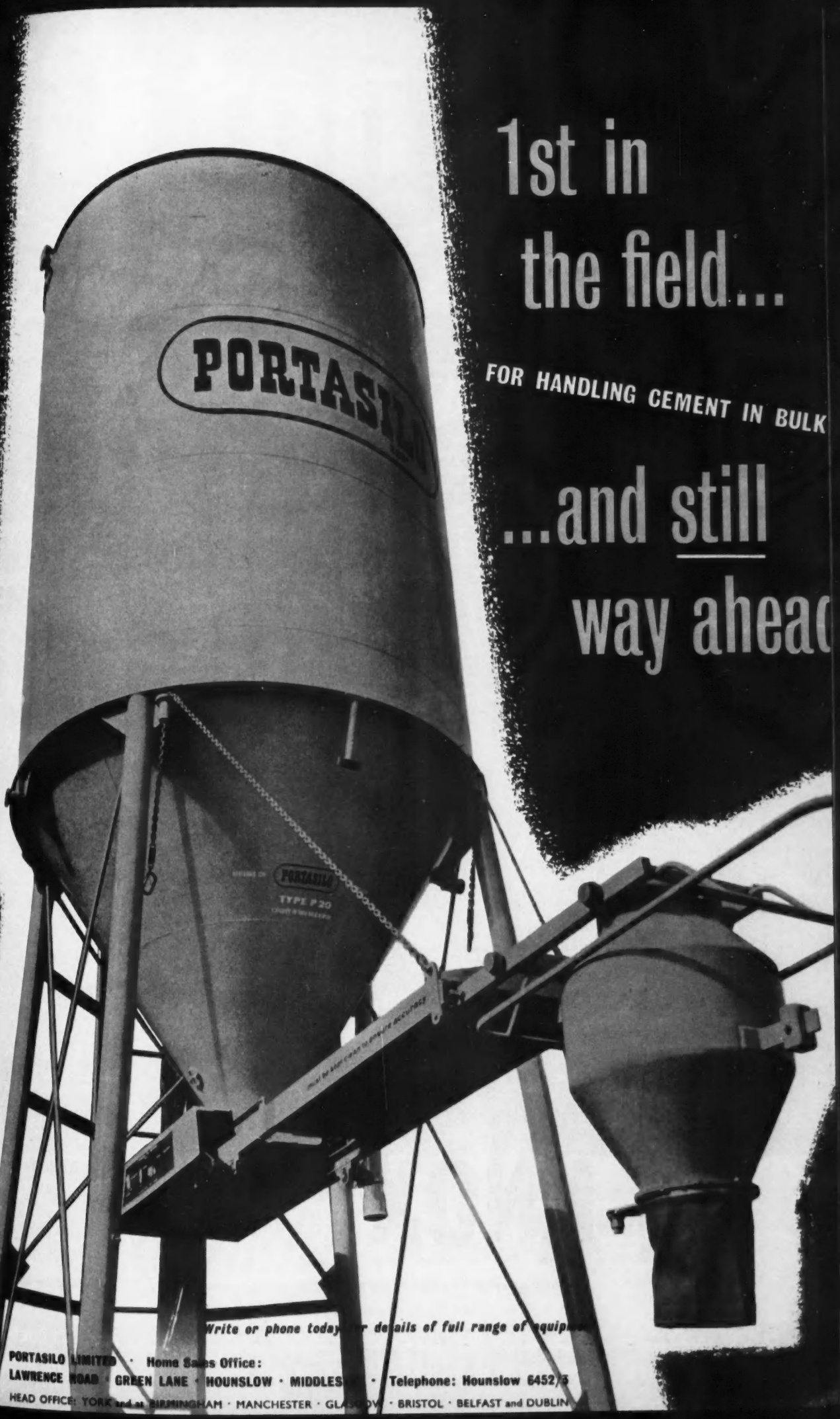

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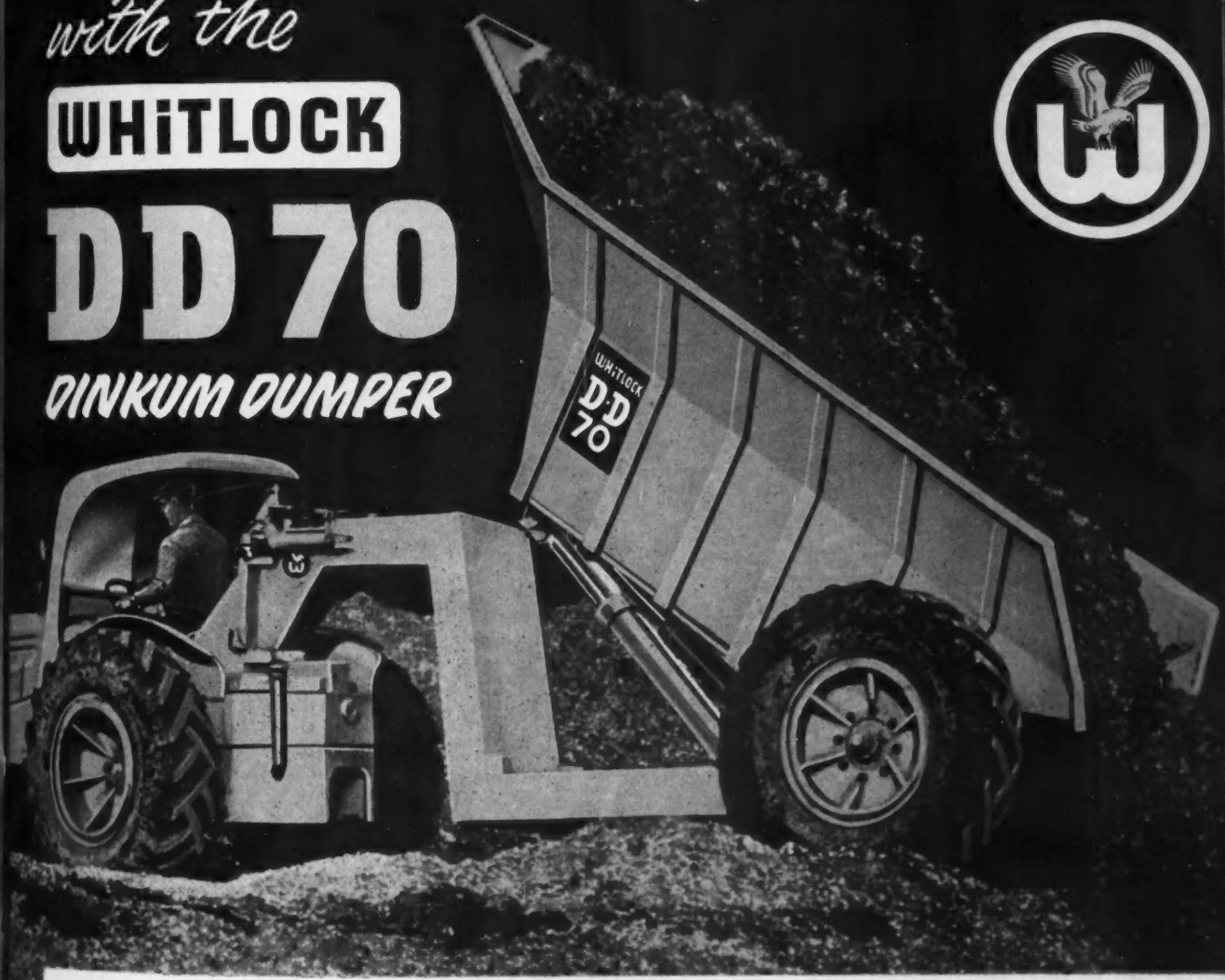

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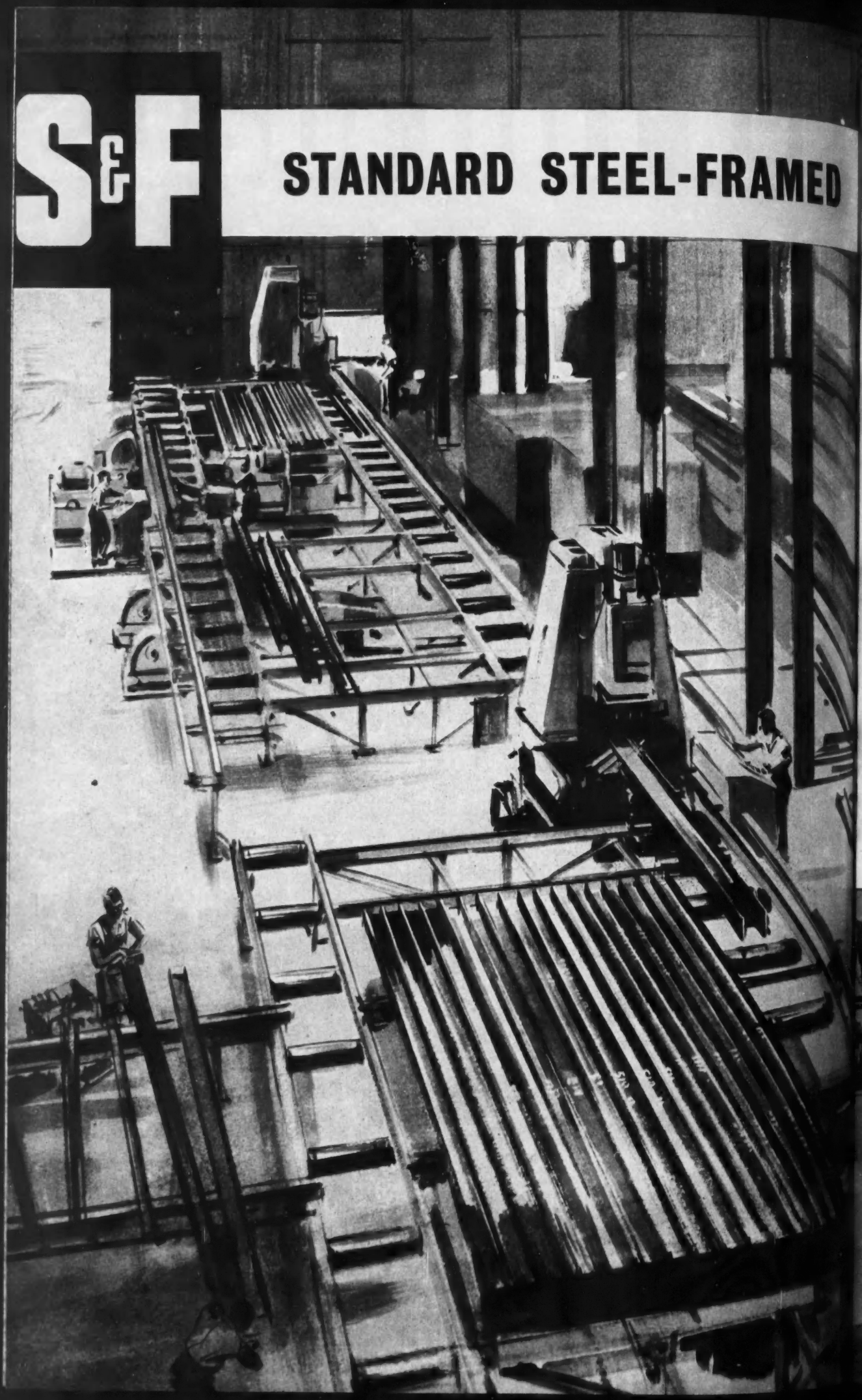
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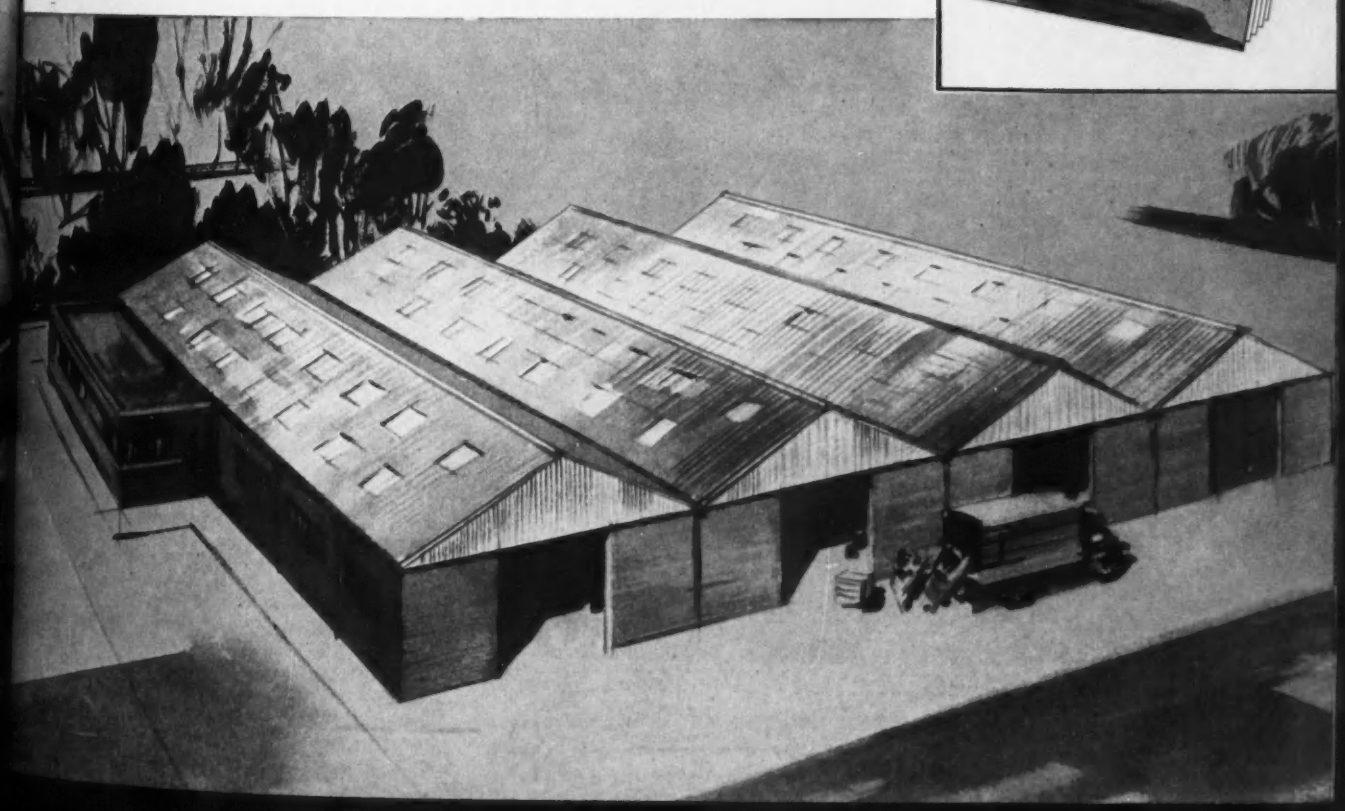

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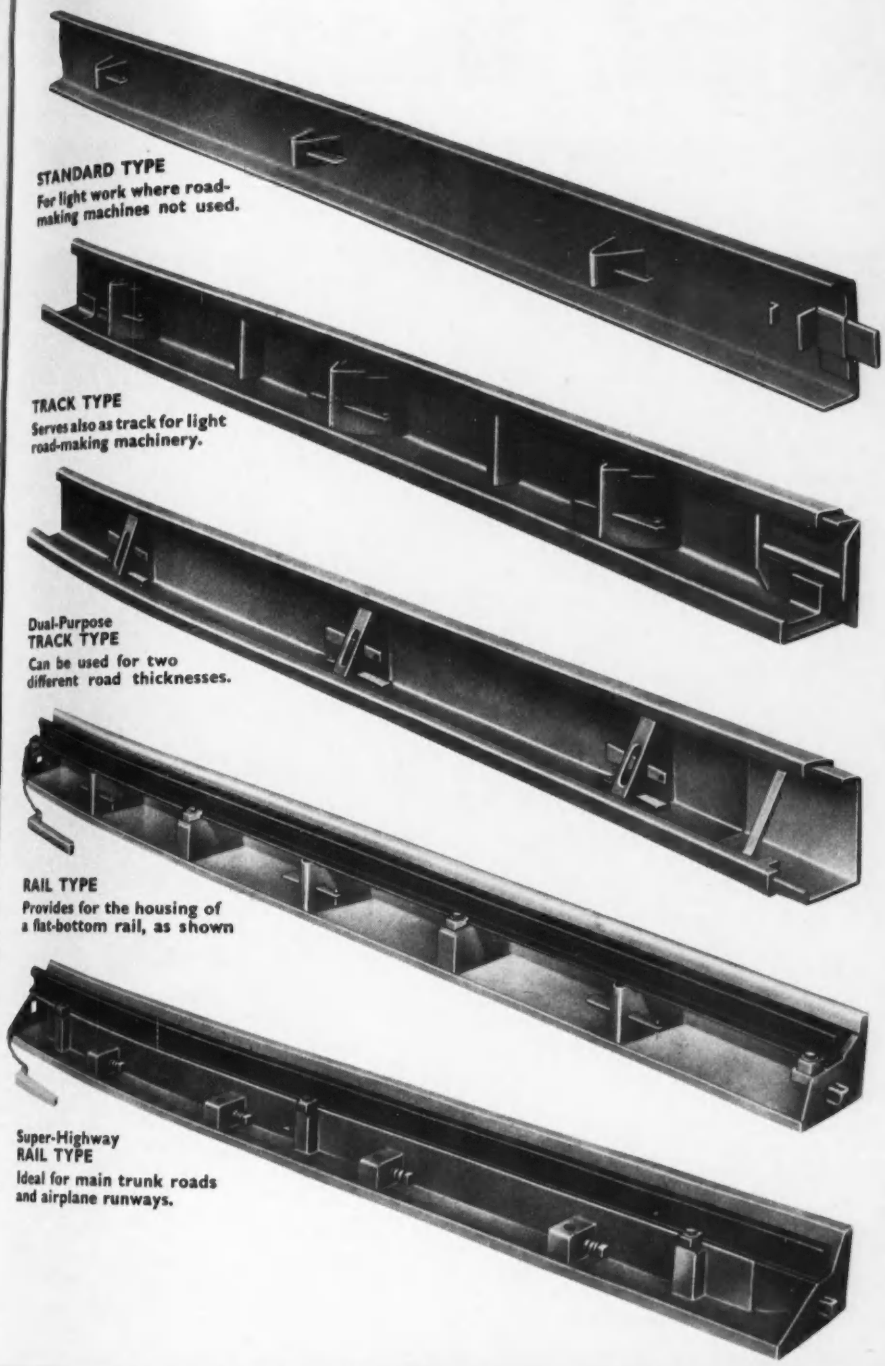

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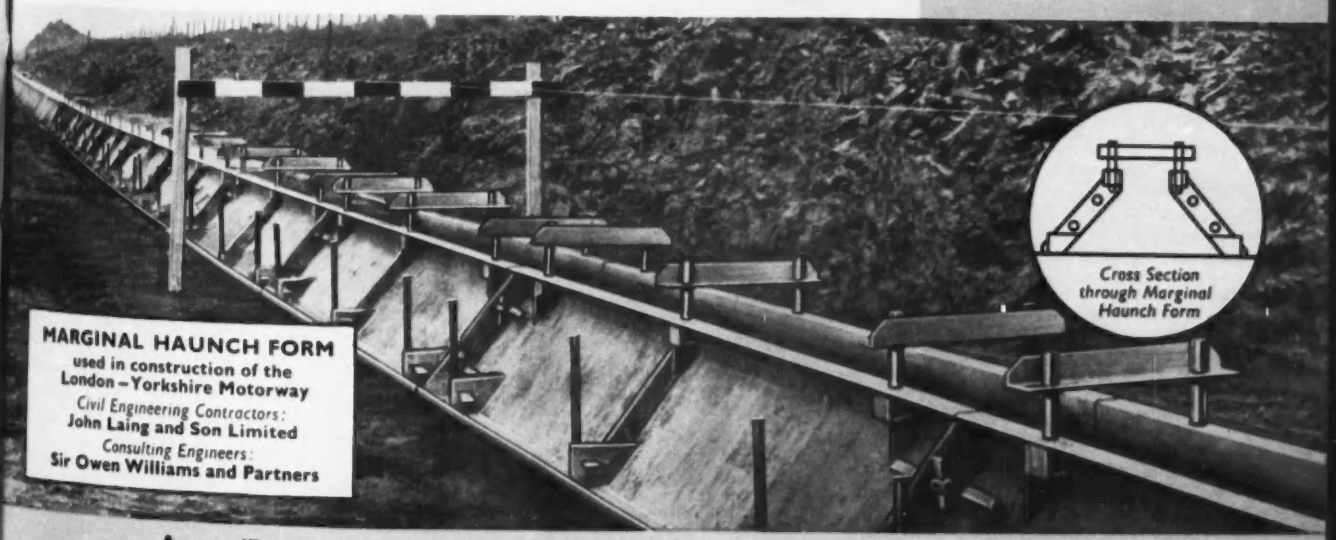

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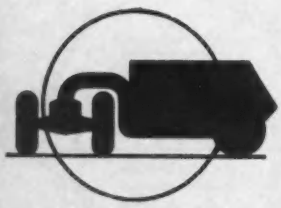

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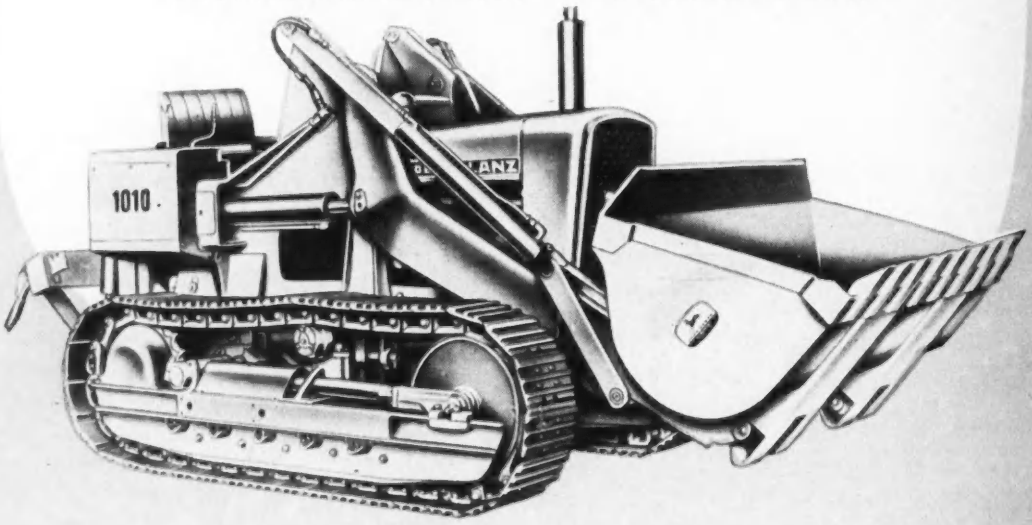

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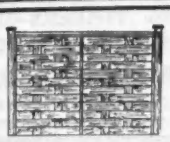

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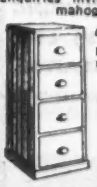

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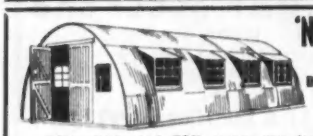

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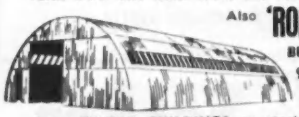

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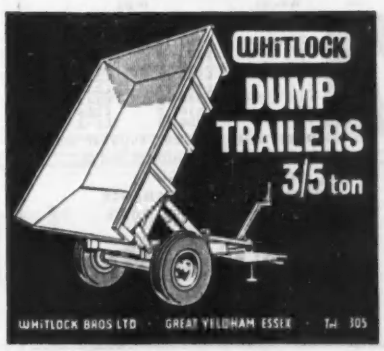

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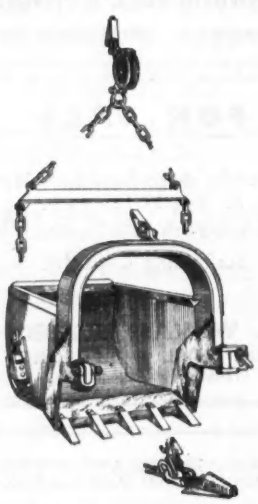

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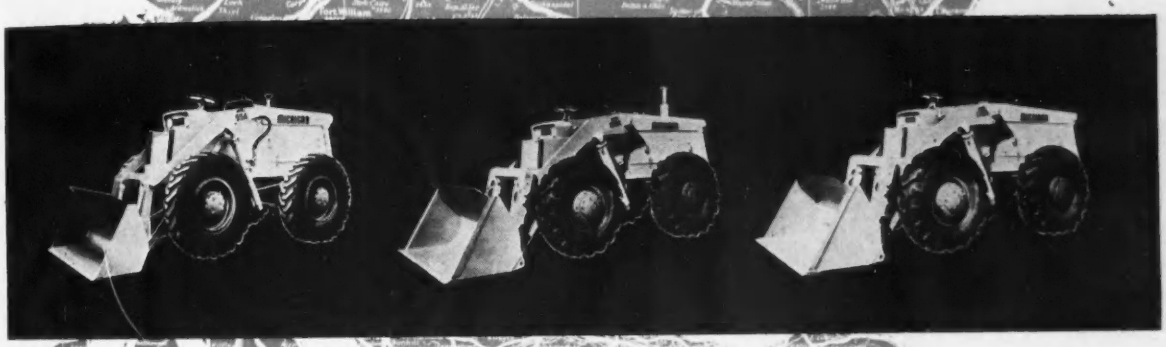

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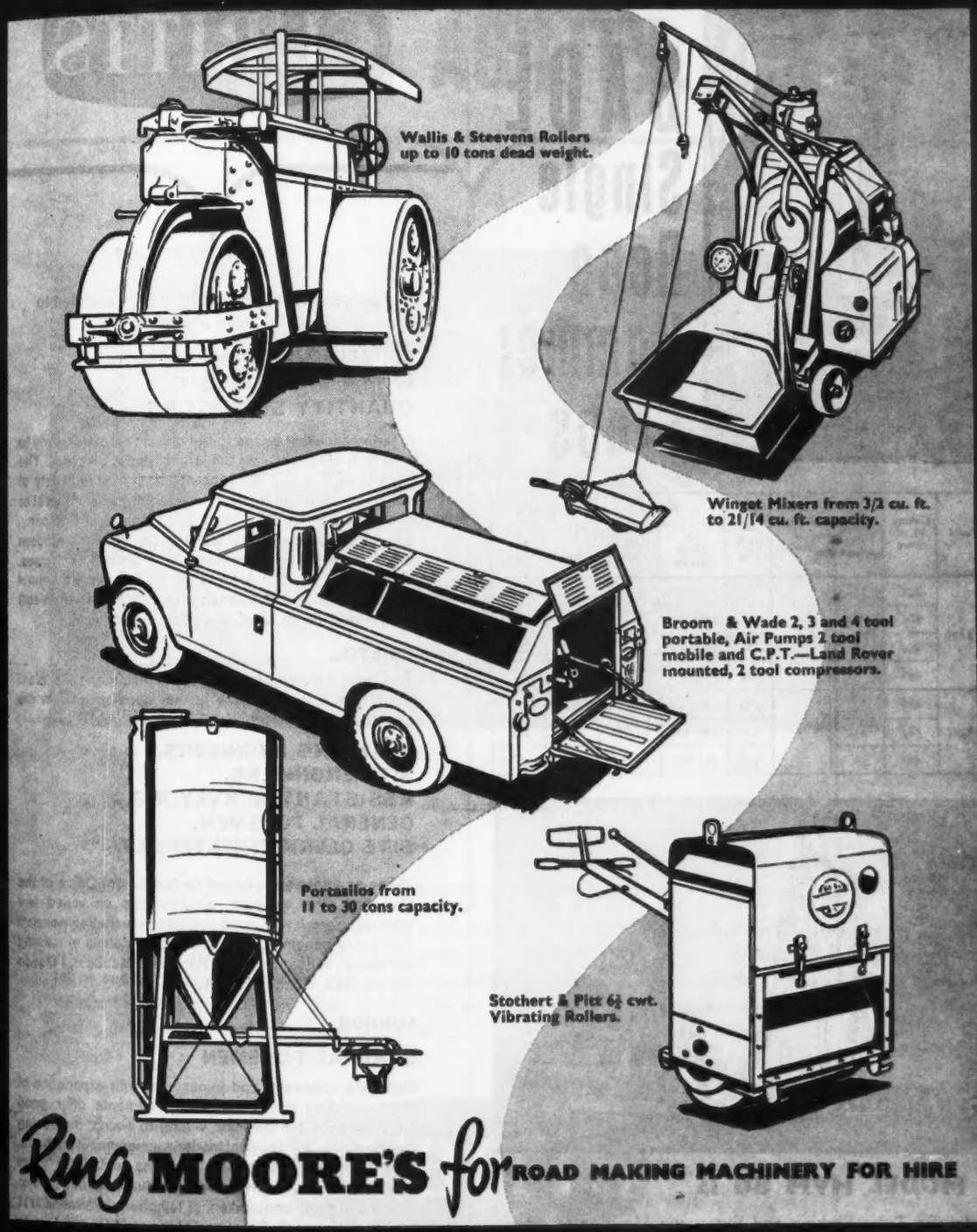

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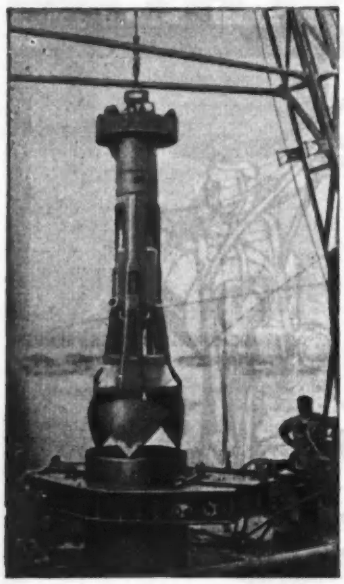

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	24½"	29½"		21½"	1962lbs.	-	26"	24½"
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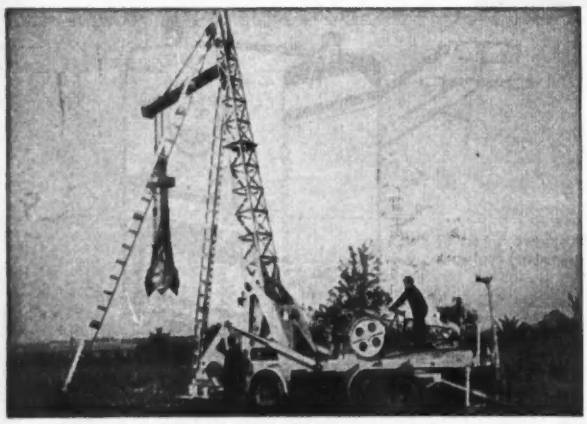

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268, PARK ROAD, GATESHEAD, 8. *Phone: 72501 Grams: 'Liner, Gateshead'*
London Office: Liner House, Lexden Road, Acton, W.3. Tel: ACOrn 0931
Also at Birmingham, Manchester, Liverpool, Bristol, Leeds, Grantham, Torquay, Edinburgh, Glasgow, Dundee, Belfast, etc.

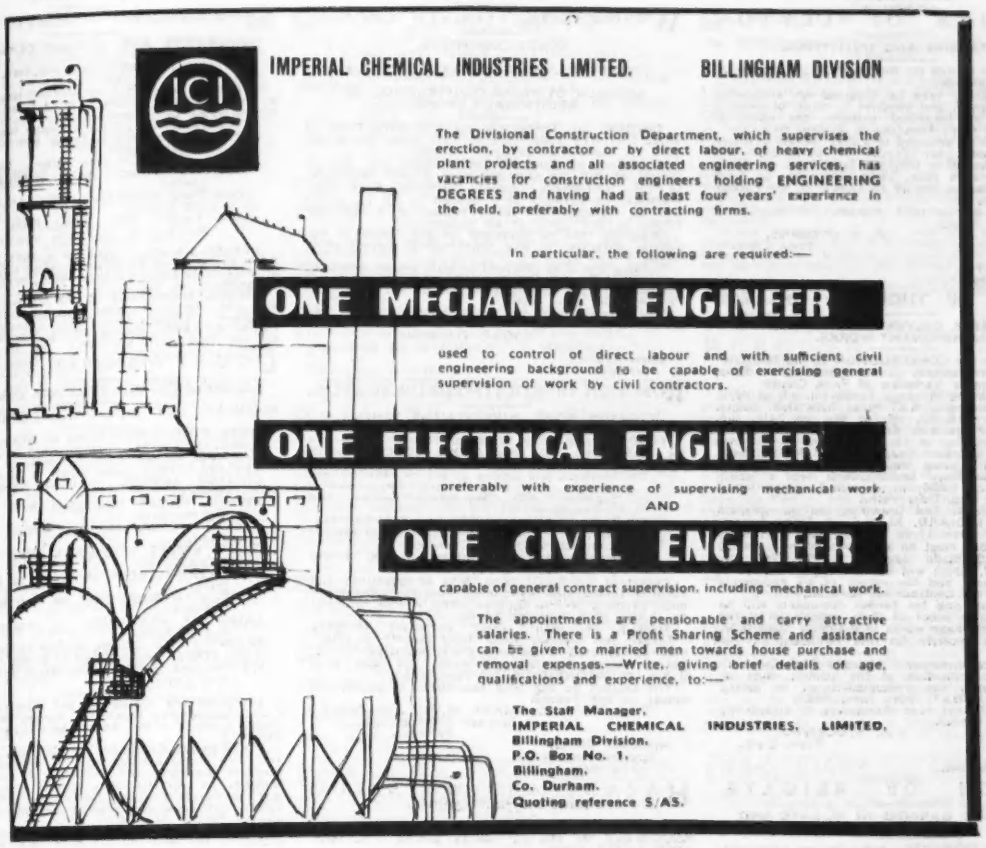
Please send full details of the Liner 'Roughrider'

NAME .....

ADDRESS .....

.....

268



IMPERIAL CHEMICAL INDUSTRIES LIMITED. BILLINGHAM DIVISION

The Divisional Construction Department, which supervises the erection, by contractor or by direct labour, of heavy chemical plant projects and all associated engineering services, has vacancies for construction engineers holding **ENGINEERING DEGREES** and having had at least four years' experience in the field, preferably with contracting firms.

In particular, the following are required:—

ONE MECHANICAL ENGINEER

used to control of direct labour and with sufficient civil engineering background to be capable of exercising general supervision of work by civil contractors.

ONE ELECTRICAL ENGINEER

preferably with experience of supervising mechanical work.

AND

ONE CIVIL ENGINEER

capable of general contract supervision, including mechanical work.

The appointments are pensionable and carry attractive salaries. There is a Profit Sharing Scheme and assistance can be given to married men towards house purchase and removal expenses.—Write, giving brief details of age, qualifications and experience, to:—

The Staff Manager,
IMPERIAL CHEMICAL INDUSTRIES, LIMITED,
Billingham Division,
P.O. Box No. 1,
Billingham,
Co. Durham.
Quoting reference S/AS.

GROUP ENGINEER FOR DERBYSHIRE STONE LIMITED

Applications are invited for this important post from men of proved engineering and administrative ability who are already earning £2,000 per annum upwards. For the right man there will be a generous salary, pension provisions, a car and excellent opportunities for promotion. He will be required to take responsibility for the development, functioning and maintenance of all plant at the quarries of our large and expanding group, based on Company Headquarters at Matlock. Previous experience with quarry plant could be useful but the essential qualifications are a good engineering degree or A.M.I.Mech.E. Whilst the preferred age range is 30/35 it would not be rigidly applied in the case of outstanding applicants.

Written applications which will remain strictly confidential to: Managing Director, Derbyshire Stone Limited, Matlock, Derbyshire.

CONTRACTS

BOROUGH OF LEYTON.

TO TAILORS AND OUTFITTERS.

TENDERS are invited for the SUPPLY of UNIFORMS for Council Employees.

Forms of Tender may be obtained on application to the undersigned, and samples of cloth of existing uniforms can be inspected between the hours of 10 a.m. and 5 p.m., Mondays to Fridays only.

Tenders must be enclosed in a plain sealed envelope endorsed "Tender for Supply of Uniforms," and delivered, addressed to me, not later than 12 Noon on MONDAY, 26th June, 1961. No name or mark indicating the sender should be shown on the outside of the envelope.

The Council do not bind themselves to accept the lowest or any Tender.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.
May, 1961.

BOROUGH OF THORNABY-ON-TEES.

MANDALE BECK CULVERT AND SEWER, AND IMPROVEMENT WORKS.

TENDERS for the CONSTRUCTION of the FOLLOWING WORKS are invited: (i) on a Fixed-price Basis, and (ii) including a Variation of Price Clause:

(a) The Laying of about 1,100 lin. yd. of 42in. to 66in. dia. R.C. Pipes with O.G. Joints, about 615 lin. yd. of 9in. to 24in. dia. R.C. Pipes with Cornelius type Joints, the Construction of 14 New Manholes with two large Overflow Chambers, and Modifications to 15 existing Manholes.

(b) Earthen Flood Embankments over a length of about 1,200 lin. yd. with Concrete Outfall Flume and Tidal Valve.

Tender documents and Drawings can be obtained from ERIC G. LEDIARD, M.I.C.E., 4 Eldon Square, Newcastle upon Tyne 1, on or after the 11th May, 1961. Applications must be accompanied by a cheque deposit of £10 made payable to the Thornaby Borough Council, which will be returned on receipt of a bona-fide Tender and the return of all documents and Plans after the Contract has been let.

Contractors applying for Tender documents will be required to furnish proof of their experience in the construction of drainage works of a similar magnitude, and to provide security for the fulfilment of the Contract.

Sealed Tenders, endorsed "Mandale Beck Culvert," and bearing no indication of the sender, must be delivered to reach the undersigned on or before 12 Noon on TUESDAY, 20th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

A. STOCKWELL,
Town Clerk.

Town Hall,
Thornaby-on-Tees.

BOROUGH OF REIGATE.

64 BRICK-BUILT GARAGES IN REIGATE AND REDHILL.

FIXED-PRICE TENDERS are invited for 39 GARAGES at ARBUTUS ROAD, 11 GARAGES at RUTLAND CLOSE, and 14 GARAGES at ATHERFIELD ROAD, together with Drainage and Site Works, based upon Specification and detailed Plans.

Form of Tender, Specification and Plans obtainable from the Borough Engineer and Surveyor, Town Hall, Reigate, on payment of a deposit of £2 2s., refunded upon the submission of a bona-fide Tender or the return of all Plans and documents.

Sealed Tenders, in the envelope provided, and endorsed "Tender for 64 Garages in Reigate and Redhill," must be returned to the undersigned not later than Noon on FRIDAY, 9th June, 1961.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
May, 1961.

WILLENHALL URBAN DISTRICT COUNCIL.

SEWER CLEANING.

TENDERS are invited for the CLEANING OF SEWERS AND OPEN CHANNELS at the SEWAGE DISPOSAL WORKS and at various other locations in the Urban District.

Tender documents can be obtained from the Engineer and Surveyor, Town Hall, Willenhall, Staffs., and bona-fide Tenders should be received by the undersigned, in plain sealed envelopes endorsed "Sewer Cleaning," not later than First Post on MONDAY, the 12th June, 1961.

JOHN R. RIDING,
Clerk of the Council.

Town Hall,
Willenhall, Staffs.

BEESTON AND STAPLEFORD URBAN DISTRICT COUNCIL.

BEESTON SEWAGE DISPOSAL WORKS EXTENSIONS.

TENDERS are invited from responsible and experienced contractors for the ABOVE CONTRACT, for Extensions to the Beeston Sewage Disposal Works, comprising the FOLLOWING:

Detritus Channels and Screening Chambers.
Storm Water Tanks.
Alterations to existing Tanks and Filters.
Humus Tanks.
Sludge Digestion Tanks and Pumping Stations.
Sludge Drying Beds.
Site Works, Roadways, etc.

The Contract Drawings, Specification and Bill of Quantities can be inspected at the Offices of the Council's Consulting Engineers, MESSRS. ELLIOTT AND BROWN, Stanley House, Pelham Road, Nottingham, on and after Wednesday, 24th May, 1961, and copies of the Specification and Bill of Quantities can be obtained from them on deposit of Five Guineas (by cheque payable to the Beeston and Stapleford U.D.C.), which will be refunded on receipt of a bona-fide Tender (not afterwards withdrawn) and the return of all documents loaned the contractor for the purpose of making-up his Tender.

Applications for Tender documents from contractors who have not previously carried out work under the Engineers should be accompanied by a list of similar work carried out, together with names and addresses of the responsible Engineers to whom reference can be made.

Sealed Tenders, endorsed "Beeston Sewage Works," are to be delivered to the undersigned not later than Noon on MONDAY, 26th June, 1961.

The lowest or any Tender will not necessarily be accepted.

H. D. JEFFRIES,
Clerk of the Council.

Town Hall,
Beeston,
Nottingham.

CONTRACTS

WARWICKSHIRE COUNTY COUNCIL.

ROADS COMMITTEE.

LONDON-HOLYHEAD TRUNK ROAD, A.45.

MERIDEN BY-PASS—CONSTRUCTION OF ADDITIONAL LAY-BYS.

TENDERS are invited for the CONSTRUCTION of NINE LAY-BYS 300ft. long by 12ft. wide. The period fixed for completion is three months.

Conditions of Contract, Specification and Bill of Quantities may be obtained from DAVID WATSON, M.I.C.E., M.I.Mun.E., County Surveyor, Shire Hall, Warwick, on payment of a deposit of £2 2s. which will be returned only upon receipt of a bona-fide Tender or the return of all documents.

Drawings may be examined at the Offices of the County Surveyor at any time during normal office hours.

Tenders are to be returned in plain sealed envelopes endorsed "Tender for Lay-bys—Meriden By-pass," addressed to the County Surveyor, by not later than FRIDAY, 9th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.

BOROUGH OF STRATFORD-UPON-AVON.

CLOPTON ROAD IMPROVEMENT SCHEME.

TENDERS are invited from experienced contractors for CARRYING OUT the ABOVE SCHEME, which consists of the FOLLOWING:

The Provision and Laying of approx. 450 lin. yd. of 6in. and 9in. Surface Water Sewer, together with Manholes, Gullies and Connections.
The Widening of approx. 600 lin. yd. of Carriageway, the Provision of Footpaths and Precast Concrete Kerbs and Channels.
The Provision and Laying of approx. 600 lin. yd. of 4in. Water Main.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the undersigned upon payment of Two Guineas which will be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for Clopton Road Improvement Scheme," must be delivered to the Town Clerk, Municipal Offices, Rother Street, Stratford-upon-Avon, not later than 9 a.m. on WEDNESDAY, 7th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

P. C. SMART, M.I.C.E., M.I.Mun.E.,
Borough Engineer and
Surveyor.

Municipal Offices,
Stratford-upon-Avon.
12th May, 1961.

HAVANT AND WATERLOO URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY OF MATERIALS for the 12 months ending 31st July, 1962, as FOLLOWS:

(4) Brooms and Brushes.
(7) Protective Clothing.
(10) Builders' Materials and Ironmongery.
(12) Drainpipes and Fittings.
(14) Electrical Cable and Fittings.
(15) Coal and Coke.
(16) Cement and Lime.
(18) Fuel and Lubricating Oils.
(20) Hand Tools.

Forms of Tender may be obtained from the Engineer and Surveyor, 1 Park Road North, Havant.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender," followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered not later than 12 Noon on SATURDAY, 10th June, 1961, to the CLERK OF THE COUNCIL, Town Hall, Havant.

The Council do not bind themselves to accept the lowest or any Tender.

BENFLEET URBAN DISTRICT COUNCIL.

SOUTH BENFLEET SEWERAGE—CONTRACT NO. 1.

BENFLEET MARSH RISING MAIN.

TENDERS are invited on a Fixed-price Basis from public works contractors experienced in similar works, for the CONSTRUCTION and MAINTENANCE of approx. 350yd. of 12in. dia. ASBESTOS-CEMENT RISING MAIN, together with Valves and Fittings, and all other works incidental thereto, in the above Urban District.

Form of Tender, Bills of Quantities, General Conditions of Contract and Specification may be obtained on or after 24th May on application to the Council's Engineers, MESSRS. LEMON AND BLIZARD, 59 Tufton Street, Westminster, London, S.W.1, on payment of a deposit cheque of Three Guineas which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents issued. Cheques shall be made payable to the Benfleet Urban District Council.

Tenders, enclosed in a plain sealed envelope, which shall not bear any name or mark indicating the sender, shall be endorsed "Tender for South Benfleet Sewerage—Contract No. 1," must reach the undersigned not later than 10 a.m. on MONDAY, 19th June.

The Council do not bind themselves to accept the lowest or any Tender.

D. GRUDGINGS,
Clerk of the Council.

Council Offices,
Thundersley, Essex.
19th May, 1961.

RICKMANSWORTH URBAN DISTRICT COUNCIL.

COUNCIL HOUSES—EXTERNAL PAINTING.

TENDERS are invited from experienced firms for the EXTERNAL PAINTING and Incidental Repairs to 127 COUNCIL HOUSES on the MILL END and CROXLEY GREEN HOUSING ESTATES, divided into three Contracts of 36, 37 and 54 houses, respectively.

Tenders may be submitted for one or all Contracts, but the completion dates will be the same.

Specifications and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Rickmansworth, on payment of £2 2s., returnable on receipt of a bona-fide Tender.

Tenders should be deposited in plain sealed envelopes endorsed "Painting Contracts—Housing," with the undersigned not later than Noon, MONDAY, 29th May, 1961.

The Council does not bind itself to accept the lowest or any Tender.

C. G. RANSOME WILLIAMS,
Clerk of the Council.

Council Offices,
Rickmansworth.
9th May, 1961.

CONTRACTS

MERIONETH COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS FOR PLANT.

TENDERS are invited for SUPPLYING ALL or ANY of the UNDERMENTIONED PLANT for early delivery to the above Department:—

One Excavator, J.C.B. or similar type.
Two 5/6 tons S.W.B. Tipper Bedford Lorries with Diesel Engines.
Three 5/3½ Concrete Mixers, Diesel Engines.
One Fordson Major Tractor, Diesel, with Hydraulic Loader.
One Diesel Compressor (250 c.f.m.), with Hoses and Tools.
One Cement Gun, Water Pump and Cement Injector.

OFFERS are also invited for a 1953 Morris Minor CAR, Registration No. FF9118, which may be inspected at the County Council's Ambulance Depot, Arran Road, Dolgellau.

Tenders, accompanied by the makers' specifications and other details, enclosed in a plain sealed envelope, endorsed "Tender for Plant," should reach the COUNTY CLERK, County Offices, Penarlag, Dolgellau, by not later than MONDAY, the 5th June, 1961.

COUNTY BOROUGH OF OLDHAM.

SURVEYOR'S AND BUILDINGS COMMITTEE.

HIGHWAYS ACT, 1959 PRIVATE STREET WORKS.

ADEN STREET (Vigo Street to Wilkins View).
AINSDALE CLOSE (Chamber Road to Cul-de-sac).
CARTMEL CLOSE (College Avenue to Cul-de-sac).
CEYLON STREET (Aden Street to Gibraltar Street).
COLLEGE AVENUE (Frederick Street to Heron Street).
ESTHER STREET (Clarksfield Road to Existing Carriageway).
EVERTON ROAD (College Avenue to Chamber Road).
GAME STREET (Roundthorn Road to No. 27 Game Street).
GIBRALTAR STREET (Nos. 25 to 54 Gibraltar Street).
HARROW AVENUE (No. 58 Harrow Avenue to Cul-de-sac).
LANGHAM ROAD (No. 71 Langham Road to Hoyley Road).
PRIORY CLOSE (College Avenue to Cul-de-sac).
VIGO STREET (Aden Street to Breese Hill Road).
WESTHULME AVENUE (Sheepfoot Lane to Prestbury Drive).

TENDERS are invited for the CONSTRUCTION of CARRIAGEWAYS, Footpaths, Verges, Drainage, and ancillary works in the ABOVE-MENTIONED PRIVATE STREETS.

The General Conditions of Contract, Specification and Bills of Quantities may be obtained from the Borough Engineer and Surveyor, 75 Union Street, Oldham, on payment of a deposit of £2 2s. which will be returned upon the receipt of a bona-fide Tender not subsequently withdrawn, and the return of all the Tender documents.

Tenders will only be considered if they are submitted in the envelope provided, sealed and delivered to the Chairman of the Surveyor's and Buildings Committee, c/o the Borough Engineer and Surveyor, not later than First Post, FRIDAY, 9th June, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender. The Contract will be subject to the Standing Orders of the Council, which include a requirement, in this case, for the provision of sureties.

EDWARD HAINES,
Town Clerk.

CITY OF WORCESTER.

CONSTRUCTION OF MANHOLES ON EXISTING SEWERS—1961/62.

TENDERS are invited for the LOCATION BY EXCAVATION of the EXISTING SEWER in DIGLIS ROAD and DIGLIS LANE, and for the CONSTRUCTION THEREON of FOUR BRICK MANHOLES.

Tender documents are obtainable from the City Engineer, 22 Bridge Street, Worcester, upon deposit of One Guinea, returnable on receipt of a bona-fide Tender.

Closing date: MONDAY, 12th June, 1961.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

RAMSEY URBAN DISTRICT COUNCIL.

WATER SUPPLY TO HOLLOW LANE AND BENWICK ROAD.

TENDERS are invited from suitably experienced contractors for the LAYING and JOINTING of approx. 6¾ miles of 4in. dia. ASBESTOS-CEMENT WATER MAINS with Screwed Joints, together with ancillary works, in the Urban District of Ramsey.

Specification, Bill of Quantities and Key Plan may be obtained from the Consulting Engineers, MESSRS. PICK, EVERARD, KEAY AND GIMSON, 5 Millstone Lane, Leicester, on payment of a deposit of £5 5s. which will be returned on the receipt of a bona-fide Tender. Further Drawings may be seen during office hours at the above address.

Tenders, on the loose form, and in the envelope provided, should be delivered to me not later than 10 o'clock in the morning of SATURDAY, 24th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

ALAN GRIFFITHS,
Clerk of the Council.

Council Offices,
Bury Road,
Ramsey,
Huntingdon.

WITHERNSEA URBAN DISTRICT COUNCIL.

CLOVELLY HOUSING SITE.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of 122 HOMEVILLE HOUSES and BUNGALOWS, 59 GARAGES, ROADS and SEWERS.

Tender documents may be obtained from the Surveyor, Municipal Buildings, 243 Queen Street, Withernsea, on receipt of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope provided, must reach the undersigned not later than Noon on FRIDAY, 2nd June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

(Signed) S. B. CLARKE,
Clerk of the Council.

Municipal Buildings,
Queen Street,
Withernsea.
9th May, 1961.

CONTRACTS

BOROUGH OF MALDEN AND COOMBE.

TENDERS are invited for the SUPPLY and DELIVERY of VARIOUS ITEMS of PLANT for GRASS CUTTING and SPORTS GROUND MAINTENANCE.

Specification and Form of Tender may be obtained from the Borough Engineer and Surveyor, Municipal Offices, New Malden, Surrey.

Completed Tender Forms to be received not later than 5 p.m., 10th JUNE, 1961.

HAROLD E. BARRETT,
Town Clerk.

Municipal Offices,
New Malden,
Surrey.

BOROUGH OF WATFORD.

ELDERLY PERSONS' FLATS.

TENDERS are invited for the CONSTRUCTION of 19 BEDSITTING ROOM FLATS and ONE TWO-BEDROOM FLAT, in ONE THREE-STOREY BLOCK, at the junction of HAGDEN LANE and BRIGHTWELL ROAD, Watford.

Applications for documents must be made to MR. F. C. SAGE, Borough Engineer and Surveyor, Town Hall, Watford, not later than 2 p.m. on Monday, 29th May, 1961.

Contract documents will be forwarded as soon as possible after that date.

No Tender will be considered unless upon the official form, which must be sent to the undersigned in the envelope provided for the purpose by 2 p.m. on WEDNESDAY, 5th July, 1961.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford.
April, 1961.

BOROUGH OF GLOSSOP.

ROAD SURFACING.

TENDERS are invited for ROAD SURFACING of VARIOUS ROADS in the Borough, amounting to about 10,000 sq. yd. of Cold Asphalt and 10,000 sq. yd. of Bitumen Macadam.

Specification and Forms of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Glossop.

Tenders, in plain sealed envelopes endorsed "Road Surfacing," to be delivered to the undersigned not later than First Post on THURSDAY, 1st June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

I. A. PUGH,
Town Clerk.

Municipal Buildings,
Glossop.
May, 1961.

WEST BRIDGFORD URBAN DISTRICT COUNCIL.

CONSTRUCTION OF SURFACE WATER DRAIN AND REPLACEMENT OF A BRICK CULVERT—WILFORD LANE.

TENDERS are invited for the ABOVE WORK, consisting of the FOLLOWING:

(i) The laying of approx. 660 lin. yd. of 12in. dia. Porous Concrete Pipes and Eight Manholes;
(ii) Demolition of a Brick Culvert and Replacing with 7 lin. yd. of 42in. dia. Steel Tubing.

Bills of Quantities, Specification, Plans and Form of Tender may be obtained from the Engineer and Surveyor, The Hall, West Bridgford, Nottingham, on payment of a £2 deposit, returnable on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for Surface Water Drain," are to be delivered to the undersigned not later than 12 Noon, FRIDAY, 16th June, 1961.

The Council is not bound to accept the lowest or any Tender.

A. G. MANSFIELD,
Clerk of the Council.

The Hall,
West Bridgford,
Nottingham.
18th May, 1961.

URBAN DISTRICT COUNCIL OF GAINSBOROUGH.

CONSTRUCTION OF ROADS AND SEWERS FOR 44 HOUSES, AND THE CONSTRUCTION OF SEWERS IN MAYFLOWER CLOSE, TRINITY STREET, ASHCROFT ROAD AND BRIDGE STREET.

TENDERS are invited for the CONSTRUCTION of the ABOVE SITEWORKS and SEWERS within the Urban District.

General Conditions of Contract may be inspected, and Drawings, Specification, Bills of Quantities and Forms of Tender obtained, from the Engineer and Surveyor, Council Offices, Lord Street, Gainsborough, on payment of a deposit of £3 3s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Site Works and Sewers," must be returned to the undersigned not later than 12 Noon on SATURDAY, 10th June 1961.

The Council does not bind itself to accept the lowest or any Tender.

H. P. DOREY,
Clerk of the Council.

Council Offices,
Lord Street,
Gainsborough.
May, 1961.

BARNACK RURAL DISTRICT COUNCIL.

WITTERING WATER SUPPLY—SCHEME "C."

AIR MINISTRY HOUSING SITES.

TENDERS are invited from contractors experienced in similar work for the LAYING of approximately 2,000yd. of 3in. diameter SPUN-IRON WATER MAIN, with Tyton Flexible Joints and all Valves, Hydrants, Service Tapolings and Contingent Fittings, in the Parish of WITTERING.

Form of Tender and relative documents can be obtained on payment of a deposit of Two Guineas from the Council's Consulting Engineers, MESSRS. STIRLING, MAYNARD AND PARTNERS, 8 Station Chambers, Peterborough. The deposit cheque should be made payable to the Barnack R.D.C., and the deposit will be returned upon receipt of a bona-fide Tender.

Tenders, in plain envelopes endorsed "Wittering Water Supply," to be delivered to the undersigned not later than First Post on 5th JUNE, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

G. P. WARTERS,
Clerk of the Council.

Council Offices,
Broad Street,
Stamford,
Lincs.

CONTRACTS

COUNTY BOROUGH OF WEST HARTLEPOOL.

ROAD AND SEWER CONSTRUCTION.

The CORPORATION is prepared to receive TENDERS for the FOLLOWING WORKS:

(1) Construction of Builders' Roads and Sewers, Glebe Farm Estate.
(2) Private Street Construction:
(a) Egerton Road A-B.
(b) Valley Drive A-B.
(c) Carisbrooke Road C-D.

Drawings may be inspected, and Specification, Bills of Quantities and Forms of Tender obtained on application to the Borough Engineer and Surveyor, Municipal Buildings, West Hartlepool, on payment of a deposit of £5 which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, addressed to the Chairman of the Works Committee, are to be delivered to my Office not later than Noon on FRIDAY, 9th June, 1961. No Tender will be accepted unless enclosed in the envelope provided, which shall bear no name or mark indicating the sender.

The Corporation does not bind itself to accept the lowest or any Tender, and also reserves the right to accept separate Tenders for any of the works.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings,
West Hartlepool.
15th May, 1961.

BOROUGH OF BASINGSTOKE.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of CROSSBOROUGH HILL. The Work includes the Construction of approximately 2,000 sq. yd. of 7in. Hardcore Carriageway with Bituminous Macadam Surfacing, together with the Taking Up and Re-laying of approximately 600 lin. yd. of Existing Stone Kerbs; the Construction of approximately 1,400 sq. yd. of Tarmacadam Footpaths; the Construction of Footpath Crossings; and the Laying of Stormwater Drainage.

Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Basingstoke, Hants., on payment of a £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned in a plain sealed envelope endorsed "Tender for Private Street Works—Crossborough Hill," not later than Noon on FRIDAY, 9th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. PURVIS,
Town Clerk.

Municipal Buildings,
London Road,
Basingstoke.
10th May, 1961.

BOROUGH OF BEDFORD.

CIVIL ENGINEERING WORKS.

The COUNCIL will require TENDERS in the next few months for the FOLLOWING WORKS:

(1) Brickmill North Housing Estate—First Stage Road and Sewer Works.
The works comprise the Construction of approx. 72,000 sq. yd. of Hardcore and Tarmacadam Carriageway, the Laying of 4,200 lin. yd. of 9in. and 12in. dia. Foul Sewer, and 4,400 lin. yd. of 9in. to 48in. dia. Surface Water Sewer, and other ancillary works.
(2) Kimbolton Road—Piping of Ditch.
The works comprise the Laying of approx. 750 lin. yd. of 48in. and 51in. dia. Surface Water Sewer along the line of an existing ditch, together with ancillary works.
(3) Brickhill Housing Estate—Contract No. 8—Completion Works.
The works comprise the Construction and Surfacing of approx. 14,000 sq. yd. Tarmacadam Footpaths on Hardcore Foundations, 21,000 sq. yd. of Cold Asphalt Surfacing to existing Carriageways, together with the Preparation and Seeding of 8,000 sq. yd. of Verges, 7 Acres of Open Space, and other incidental works.
(4) Central Area Redevelopment—Sewer Works.
The Laying in, and adjacent to, Hassett Street of approx. 620 lin. yd. 12in. to 36in. dia. Surface Water Sewers, 160 lin. yd. of 9in. and 12in. dia. Foul Sewers, Manholes, and ancillary works.

A selected list of contractors will be chosen and provided with the Tender documents in due course.

Contractors with experience of similar work, and who wish to be considered for inclusion in the selected list are invited to submit their names to the Borough Engineer and Surveyor, Newnham House, Horne Lane, Bedford, by 5th JUNE, 1961, stating which Contracts they wish to tender for, and giving a list of recent works of a similar size and nature, and the employing authority in each case.

G. F. SIMMONDS,
Town Clerk.

Town Hall,
Bedford.
4th May, 1961.

URBAN DISTRICT OF LETCHWORTH.

TENDERS are invited for the SUPPLY of One Chaseside LOADMASTER and One 3-ton Bedford TIPPING LORRY. Particulars can be obtained from the Engineer and Surveyor, Town Hall, Letchworth. Tenders to be received by Noon, MONDAY, June 5th, 1961, by the undersigned.

H. PLINSTON,
Clerk to the Council.

FULWOOD URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

TENDERS are invited for MAKING-UP the FOLLOWING STREETS:

Aubigny Drive.
Causeway Avenue.
Banks Road.
Woodside Avenue.

Drawings and General Conditions may be seen at, and Specification, Bills of Quantities and Form of Tender may be obtained from, the Engineer and Surveyor, at the address below, on payment of a deposit of Two Guineas which is returnable upon receipt of a bona-fide Tender.

Sealed Tenders, in the envelope provided, must be returned not later than First Post on THURSDAY, 8th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

Dated this 16th day of May, 1961.

R. D. S. COTMAN,
Clerk of the Council.

Council Offices,
Garstang Road,
Fulwood, Lancs.

CONTRACTS

BOROUGH OF REIGATE.

18 DWELLINGS—WOODHATCH FARM ESTATES, REIGATE.

FIXED-PRICE TENDERS are invited for 15 THREE-BEDROOM HOUSES, THREE 1-STOREY OLD PEOPLE'S ANNEXES and 15 GARAGES, based upon Bills of Quantities for Substructure and Site Works, subject to Remeasurement as work proceeds, and upon Lump Sum for Superstructure of the Dwellings based upon Specification and Detailed Plans.

Form of Tender, Specification, Bills of Quantities and Plans obtainable from the Borough Engineer and Surveyor, Town Hall, Reigate, on payment of a deposit of £2 2s., refunded upon the submission of a bona-fide Tender or the return of all Plans and documents.

Sealed Tenders, in the envelope provided and endorsed "Tender for 18 Dwellings—Woodhatch Farm Estate, Reigate," must be returned to the undersigned not later than Noon on THURSDAY, 8th June, 1961.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
May, 1961.

BOROUGH OF LUTON.

HOUSING DEPARTMENT.

TENDERS are invited for STRIPPING, FELTING and BATTENING, and RETILING with NEW TILES, and Sundry Works to Chimney Stacks, to 18 HOUSES in HAYES CLOSE, PUTTERIDGE ROAD and CANNON LANE, Luton.

Specifications, General Conditions, Form of Tender, etc., are obtainable from the DIRECTOR OF HOUSING, Town Hall, Luton, on the payment of a deposit of Two Guineas, returnable on receipt of a bona-fide Tender, and must be returned in the official envelope provided, by Noon on TUESDAY, 6th June, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

BOROUGH OF SHREWSBURY.

MAKING-UP OF GRANVILLE STREET.

TENDERS, which must be received by 10 a.m. 12th JUNE, are invited for the ABOVE PRIVATE STREET WORKS, which comprise the following approx. quantities: 1,100 sq. yd. of Tarmacadam Carriageway and Footpath; 170yd. Kerb and Channel, Surface Water Drainage, and other ancillary works.

Forms of Tender, Bills of Quantities and Specification may be obtained from, and Drawings inspected at, the Office of the Borough Surveyor, Guildhall, Dogpole, Shrewsbury, on receipt of deposit of Two Guineas.

S. R. H. LOXTON,
Town Clerk.

URBAN DISTRICT COUNCIL OF DENTON.

VICTORIA PARK TENNIS COURTS.

SURFACING WORKS.

TENDERS are invited for the SURFACING of the TENNIS COURTS at VICTORIA PARK, Denton, to be completed before the 31st March, 1962.

Bills of Quantities, Specifications and Form of Tender may be obtained on application from the office of the Engineer and Surveyor, Town Hall, Denton.

Tenders, enclosed in plain sealed envelopes endorsed "Tender for Tennis Courts Surfacing," addressed to the undersigned, should be delivered not later than 10 a.m. on MONDAY, 5th June, 1961.

JAS. SMITH,
Clerk to the Council.

Town Hall,
Denton.

SOUTH EAST DERBYSHIRE RURAL DISTRICT COUNCIL.

ALVASTON AND BOULTON SEWERAGE AND STOCKER FLAT SEWERAGE.

TENDERS are invited for CARRYING OUT the WORKS which comprise the FOLLOWING:—

(1) Foul Water Sewers, 6in., 9in. and 12in. dia., Salt Glazed Ware, approx. 1,450 lin. yd., complete with Brick and Precast Concrete Manholes.
(2) Combined Sewers, 36in. to 54in. dia., Spun-Concrete, approx. 1,300 lin. yd., complete with Brick Manholes.
(3) Storm Water Overflow Chamber.—A Brick and Concrete Chamber with Mechanically Raked Screens and ancillary works.
(4) Pumping Station.—An Automatic Pumping Station with Wet and Dry Wells of Mass Concrete and Brick Superstructure to house four electrically driven centrifugal pumps, control gear, etc., 170 lin. yd. of 8in. dia. Rising Main.
(5) Elector Station.—A small Automatic Elector Station of Mass Concrete and Brick construction housing two electors, control gear, etc., 280 lin. yd. of 4in. dia. Rising Main.
(6) Surface Water Sewer and Regrading of Watercourse, 36in. and 48in. Spun Concrete, approx. 700 lin. yd., complete with Brick Manholes, etc., Regrading and Deepening existing Watercourse, approx. 1,300 lin. yd.
(7) The Restoration of Surfaces and the Maintenance of the Works for a period of 12 months.

Copies of the General Conditions of Contract, Specification, Bills of Quantities, Drawings and Form of Tender may be obtained from SIR HERBERT HUMPHRIES AND McDONALD, Consulting Engineers, Park Chambers, 276 Monument Road, Edgbaston, Birmingham, 16, on the deposit of 10 Guineas (which will be returned on the receipt of a bona-fide Tender not subsequently withdrawn) and the return of all documents and Drawings. Cheques must be made payable to the South East Derbyshire Rural District Council.

Particulars of the proposed works can be inspected daily between 9.30 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m., Monday to Friday inclusive, at the Office of the Consulting Engineers, and at the Office of the Senior Public Health Inspector to the Rural District Council, Council Offices, St. Mary's Gate, Derby. Information concerning the Drawings and documents can only be obtained from the Consulting Engineers.

Note.—The Tender, together with the priced Bill of Quantities, enclosed separately in the properly endorsed envelopes provided for the purpose, must be sealed and delivered to the Clerk of the Council, Council Offices, St. Mary's Gate, Derby, not later than Noon on MONDAY, 3rd July, 1961. Tenders and/or documents received after that time will not be considered.

The Council do not bind themselves to accept the lowest or any Tender.

F. CLAYTON,
Clerk of the Council.

Council Offices,
St. Mary's Gate,
Derby.
May, 1961.

CONTRACTS

COUNTY BOROUGH OF BRIGHTON.

WATER DEPARTMENT.

MAINLAYING—DUPLICATE 12IN. MAIN DIVERSION—THE DROVEWAY, HOVE.

FIXED-PRICE TENDERS invited from experienced contractors for LAYING and JOINTING of approx. 750 lin. yd. 12in. dia. FLEXIBLY JOINTED SPUN-IRON PIPES and Specials in the area of Hove Park.

The total length will comprise Duplicate Mains of equal length laid in one trench. All Spun-iron Pipes and Special Castings will be provided at the Goldstone Pumping Station stockyard.

Conditions of Contract, Specification and Tender documents obtainable from Waterworks Engineer, 12 Bond Street, Brighton, 1, on deposit of £3 3s. which will be refunded on receipt of a bona-fide Tender and return of all documents supplied.

Tenders, enclosed in plain sealed envelopes not bearing any name or mark indicating the sender, and endorsed "Mainlaying—Duplicate 12in. Main Diversion," to be delivered to me before 12 Noon on the 19th JUNE, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton.

COUNTY BOROUGH OF HALIFAX.

PRIVATE STREET WORKS—WOODLESFORD CRESCENT.

TENDERS, based on Fixed-price Rates, are invited for the MAKING-UP of WOODLESFORD CRESCENT, including Surfacing (1,260 sq. yd.), Footways and Accesses (1,325 sq. yd.), and Drainage Works.

Documents from the Borough Engineer, Crossley Street, Halifax, on receipt of £2 (cheques made payable to the Halifax Corporation), returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders should be delivered to the undersigned by FRIDAY, 16th June, 1961.

RICHARD de Z. HALL,
Town Clerk.

Town Hall,
Halifax.

COUNTY BOROUGH OF SMETHWICK.

PRIVATE STREET WORKS—SPRING ROAD (OFF SPON LANE).

TENDERS are invited for the CONSTRUCTION of approx. 1,050 lin. yd. of FOUL and SURFACE WATER SEWERS at the ABOVE, varying from 9in. to 18in. dia., together with Silt Chamber, and appurtenant works.

Tender documents may be obtained on written application to the Borough Engineer, The Council House, Smethwick, accompanied by a crossed cheque for £2 2s. made payable to the Borough Treasurer, Smethwick. This amount will be refunded following receipt of a bona-fide Tender.

Drawings may be seen at the Borough Engineer's Department, 277 High Street, Smethwick.

Sealed Tenders, in the official envelope provided, must be delivered to the undersigned not later than First Post, FRIDAY, 9th June, 1961.

The Corporation is not bound to accept the lowest or any Tender.

E. L. TWYCROSS,
Town Clerk.

Council House,
Smethwick, 40.

BOROUGH OF STOURBRIDGE.

WORCESTER LANE FOUL WATER SEWER AND BROMWICH LANE STORM WATER SEWER.

TENDERS are invited for the LAYING of FOUL and STORM WATER SEWERS in Worcester Lane and Bromwich Lane, Pedmore, Stourbridge.

The work consists of approx. 1,500 lin. yd. of 9in Salt Glazed Stoneware Pipes for Foul Water Sewer and approx. 370 lin. yd. of 9in. Salt Glazed Stoneware Pipes for Storm Water Sewer, together with Brick Manholes, and incidental works.

Bills of Quantities, Specification and Contract documents may be obtained from the undersigned on receipt of a deposit of £2 2s. which will be returned on receipt of a Tender not subsequently withdrawn, and the return of all documents.

Tenders, by Recorded Delivery, in plain sealed envelopes endorsed "Worcester Lane Sewers," to reach the Town Clerk, Council House, Stourbridge, not later than Noon, TUESDAY, 20th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

H. W. MORRIS, B.Sc.(Eng.), A.M.I.C.E., M.I.Mun.E.,
Borough Engineer and Surveyor.

Council House,
Stourbridge.
16th May, 1961.

BOROUGH OF WARWICK.

PERCY ESTATE—CONSTRUCTION OF FOOTPATHS, VERGES AND GREENS.

PHASE III.

TENDERS are invited from experienced contractors for the CONSTRUCTION of PRECAST CONCRETE SLAB FOOTPATHS, Tarmacadam Verges and Grassed Areas, together with other appurtenant work.

Copies of the Tender documents may be obtained from the undersigned on payment of a £2 2s. deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be returned, in the envelope provided, not later than 10 a.m. on THURSDAY, 8th June, 1961, and the Council does not bind itself to accept the lowest or any Tender received.

C. E. BROWN, A.M.I.Mun.E.,
Borough Engineer and Surveyor.

23 Jury Street,
Warwick.

BOROUGH OF ROWLEY REGIS.

SURFACE DRESSING.

TENDERS are invited for the SURFACE DRESSING of CARRIAGEWAYS, having a total area of approx. 69,000 sq. yd.

Specifications and Form of Tender may be obtained from the Borough Engineer and Surveyor, Municipal Buildings, Old Hill, Staffs., upon the deposit of £2 2s. which will be returned on receipt of a bona-fide Tender not afterwards withdrawn.

Tenders must be delivered to the Town Clerk, in the envelope provided, not later than 12 Noon on MONDAY, 29th May, 1961.

G. C. COOKSON,
Town Clerk.

Municipal Buildings,
Old Hill, Staffs.

CONTRACTS

COUNTY COUNCIL OF DURHAM.

TENDERS invited for SUPPLY of the FOLLOWING to CONSETT TECHNICAL COLLEGE:—

(1) Electrical Laboratory Machinery.
(2) Mining Electrical Equipment.
(3) Elementary Engineering Machinery and Equipment.
(4) Welding Machinery.
(5) Heat Engines Laboratory Machinery.

Details and Forms of Tender, returnable by 12th JUNE, 1961, from undersigned.

G. H. METCALFE,
Director of Education.

Shire Hall,
Durham.
15th May, 1961.

BOROUGH OF REIGATE.

TENDERS are invited for RESURFACING 4,500 sq. yd. A.23 BRIGHTON ROAD with 2in. ROLLED ASPHALT B.S.594, also for HEATING, PLANING and RESURFACING 3,500 sq. yd. A.25 HIGH STREET, Reigate, together with ancillary works.

Tender Forms may be obtained from, and Conditions of Contract may be inspected at, the Office of the Borough Surveyor.

Tenders must be returned, in the sealed envelope provided, to the undersigned not later than SATURDAY, 24th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
25th May, 1961.

PONTYPRIDD URBAN DISTRICT COUNCIL.

TREFOREST/PONTYPRIDD/RHONDDA ROAD, A.4058.

IMPROVEMENT BETWEEN DISTILLERY ROAD AND GYFEILLON GARDENS, HOPKINSTOWN, PONTYPRIDD.

The Council invite FIXED-PRICE TENDERS for the ABOVE ROAD IMPROVEMENT SCHEME, involving the Construction of approx. 500 lin. yd. of Surface Water Drains of 6in. and 9in. dia., together with Manholes and other appurtenant works; 18,200 cu. yd. of Excavation; 2,700 lin. yd. of Kerbing and In-situ Concrete Channel; 12,000 sq. yd. of Carriageway Surfacing and Foundation; 6,000 sq. yd. of Footway Surfacing in Tarmacadam and Flagged Paving; and 4,000 cu. yd. Concrete; 2,500 sq. yd. of 15in. Masonry Facing and 600 cu. yd. of Masonry Walling in Retaining and other Walls; together with other ancillary works.

Plans and Conditions of Contract may be seen, and the Specification, Bills of Quantities and Form of Tender obtained from C. B. JONES, Engineer and Surveyor, Municipal Buildings, Pontypridd, on payment of a deposit of Two Guineas which will be returned to the tenderer after the Council have entered into a Contract on the Tenders received, provided he shall have sent in a bona-fide Tender (and returned all documents supplied in connection therewith), and shall not have withdrawn same.

Tenders, in addressed envelope provided for that purpose, sealed and endorsed "Rhondda Road Improvement, Hopkinstown," and bearing no mark indicating the sender, must be received by the undersigned not later than Noon on MONDAY, the 19th day of June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

BERNARD M. MURPHY,
Clerk of the Council.

Municipal Buildings,
Pontypridd, Glam.
April, 1961.

DOVER RURAL DISTRICT COUNCIL.

LYDDEN, COLDRED AND SHEPHERDSWELL SEWERAGE SCHEME.

CONTRACTS 1 AND 2.

TENDERS are invited for the FOLLOWING CONTRACTS:—

(1) The Laying of 14,000yd. of 6in., 9in. and 12in. diameter Sewers, 2,600yd. of 6in. diameter Rising Mains, and the Construction of Two Pumping Stations in the Villages of Lydden, Coldred and Shepherdswell, in the Dover Rural District.
(2) The Supply and Erection of Duplicate 225 g.p.m. Pumping Equipment in No. 1 Pumping Station, Coldred, and 150 g.p.m. Pumping Equipment in Pumping Station No. 2, Shepherdswell.

Contractors wishing to Tender should apply to the Council's Consulting Engineers, MESSRS. J. H. HAISTE AND PARTNERS, 44-6 Bridge Street, Peterborough, enclosing a deposit cheque value Three Guineas in respect of each Contract and made payable to the Dover Rural District Council, such deposit to be refunded on receipt of a bona-fide Tender and the return of the documents.

Drawings may be inspected at either the Council Offices or the Consulting Engineer's Office.

Tenders, in plain sealed envelopes endorsed "Sewerage Contract No. 1 and/or 2," as appropriate, must be submitted to the undersigned not later than 12 Noon on MONDAY, 26th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

W. WILMOTT,
Clerk of the Council.

Council Offices,
Temple Ewell,
Near Dover.

THE COQUET WATER BOARD.

FILTRATION WORKS AND PUMPING STATION, WARKWORTH.

CONTRACT NO. 23—SITE ROADS AND FENCES.

TENDERS are invited for the CONSTRUCTION and MAINTENANCE for 12 months of CERTAIN SITE ROADS, FENCING and CABLE DUCTS at the ABOVE WORKS.

Contract documents and Drawings will be forwarded upon payment of a deposit of Two Guineas, which will be returned upon receipt of a bona-fide Tender and the return of the Contract documents and Drawings, by the Engineer and Manager of the Coquet Water Board, G.P.O. Box 104, Pilgrim Street, Newcastle upon Tyne, 1.

Tenders, duly completed, must be returned to the undersigned in the envelope provided, bearing no name or distinguishing mark indicative of the sender, not later than 10 a.m. on FRIDAY, 16th June, 1961.

The Board does not bind itself to accept the lowest or any Tender.

FRED G. EGNER,
Clerk and Solicitor.

14 Northumberland Square,
North Shields.

CONTRACTS

BOROUGH OF BASINGSTOKE.

TOWN HALL—REMOVAL OF CLOCK TOWER.

TENDERS are invited for the TAKING DOWN of the TOWN HALL CLOCK TOWER which is situated approx. in the centre of the town. The tower is mainly constructed of brick and iron, and the contractor will be responsible for the removal of most of the material.

Specification, Bills of Quantities and Forms of Tender may be obtained from the Borough Surveyor, Municipal Buildings, London Road, Basingstoke, Hants., on payment of a Two Guinea deposit which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned, in the official envelope provided, which must bear no name or mark identifying the sender, not later than Noon on MONDAY, 5th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. PURVIS,
Town Clerk.

Municipal Buildings,
London Road,
Basingstoke.

NAIROBI CITY COUNCIL

KIBURU DIVERSION.

TENDERS FOR THE SUPPLY OF:

(a) STEEL PIPES AND SPECIALS—CONTRACT NO. 1.
(b) SLUICE VALVES AND AIR VALVES—CONTRACT NO. 2.
(c) CHAMBER COVERS AND FRAMES—CONTRACT NO. 3.

TENDERS are invited for the SUPPLY and DELIVERY of ABOVE MATERIALS to the Council's Stores at Longonot for Contract No. 1, and at Sasumua Dam for Contracts No. 2 and No. 3.

Tender documents may be obtained from the Office of the Consulting Engineers, Messrs. HOWARD HUMPHREYS AND SONS, Sadler House, Nairobi, Kenya, on and from the 5th June, 1961, on payment by cheque of a deposit of Shs. 50/- for each contract. The deposit is returnable on receipt of a bona-fide Tender.

When applying for tender documents, applicants should state the names of the manufacturers of the materials they propose to offer.

Tenders shall be on the official form, and are to be delivered to the undersigned in a sealed envelope, endorsed "Tender—AN10/18 Kiburu Diversion—Contract No. 1" (for Pipe Tender), "No. 2" (for Valve Tender), and "No. 3" (for Chamber Cover Tender), but bearing no name or other mark on the envelope indicating the sender, not later than 11.30 a.m. on MONDAY, 3rd July, 1961.

The City Council does not bind itself to accept the lowest or any Tender.

ROBERT LUNN,
Town Clerk.

City Hall,
Nairobi.
15th May, 1961.

DARTON URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

TENDERS are invited from experienced contractors for the FOLLOWING WORKS in the Darton Urban District:

CONTRACT "A"—Reconstruction of approx. 1,000 lin. yd. of Footpaths with Tarmacadam at Darton.

CONTRACT "B"—Resurfacing of approx. 3,800 super. yd. of Concrete Carriageways with Cold Asphalt at Gawber.

Contractors may tender for either or both Contracts, and Specification, Bill of Quantities and Conditions of Contract may be obtained from the Engineer and Surveyor, Council Offices, Darton, near Barnsley.

Sealed Tenders, in the envelopes provided, must be delivered to the undersigned not later than 10 a.m. on MONDAY, the 3rd July, 1961.

J. E. SHACKLETON,
Clerk of the Council.

Council Offices,
Darton,
Near Barnsley.
16th May, 1961.

HORNCHURCH URBAN DISTRICT COUNCIL.

RESURFACING OF DISTRICT ROADS, 1961/62.

TENDERS are invited for the ABOVE WORKS, comprising the Resurfacing of Various Roads with Coarse Cold Asphalt (¾in. thick). The area involved is approx. 21,500 sq. yd.

The Conditions of Contract, Specification and Bills of Quantities may be obtained from the Office of the Engineer and Surveyor, Council Houses, Billet Lane, Hornchurch, upon payment of a deposit of Two Guineas which will be refunded, in the case of a bona-fide Tender, upon acceptance of a Tender by the Council.

The documents and priced Bills of Quantities must be returned to the undersigned not later than Noon on MONDAY, 12th June, 1961, sealed in the envelope provided, which shall bear no indication of the identity of the person(s) tendering.

The Council is not bound to accept the lowest or any Tender.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet Lane,
Hornchurch, Essex.

URBAN DISTRICT COUNCIL OF AIREBOROUGH.

PRIVATE STREET WORKS.

MOORWAY, GUISELEY.

TENDERS are invited for the MAKING-UP of MOORWAY, TRANMERE PARK, Guiseley (length approx. 900ft.), with PITCHED CARRIAGEWAY SURFACED WITH MACADAM and FINE COLD ASPHALT, Surface Water Drainage, and other ancillary works.

Specification, Bill of Quantities and Form of Tender may be obtained from, and General Conditions of Contract inspected at, the Engineer and Surveyor's Office, Micklefield House, Rawdon, near Leeds, on payment of a deposit of £3 3s. which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Moorway—Private Street Works," not later than Noon on FRIDAY, 9th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

RALPH H. HULME,
Clerk of the Council.

Micklefield House,
Rawdon,
Near Leeds.
19th May, 1961.

CONTRACTS

COUNTY BOROUGH OF WALLASEY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

VEHICLES AND PLANT.

TENDERS are invited, in whole or in part, for the SUPPLY of the FOLLOWING:—

(1) Two Ford 5-ton Tipping Vehicles, Diesel (one Ford 5-ton Tipping Vehicle, 1956, to be taken in part exchange).
(2) One Gully Emptier, Diesel, total capacity 600 to 800 gallons.
(3) One Morris Saloon Car, 1,000 c.c. (Morris Minor Saloon Car, 1952, to be taken in part exchange).
(4) One Ferguson Tractor, Industrial, "35" Diesel (Ferguson Petrol Tractor, 1952, to be taken in part exchange).
(5) Two Floataire Trucks.
(6) One B.S.A. Motor Cycle, 250 c.c. (Matchless Motor Cycle, 1949, to be taken in part exchange).
(7) One Air Compressor, 2-wheel trailer type, Diesel, 125 c.f.m., 2-Tool.
(8) One Vibrating Roller, 8/12cwt., Diesel, pedestrian-controlled.
(9) One Electric Concrete Mixer, 5/3½ or 7/5, 400-Volt A.C. 50-cycles 3-phase (Winget Petrol Concrete Mixer, 5/3½, to be taken in part exchange).
(10) One Mechanical Rammer, Wacker Type BS50K.

Forms of Tender, etc., may be obtained from the Borough Engineer and Surveyor, Town Hall, Wallasey. Completed Tenders must be returned, in the envelope provided, to reach the undersigned not later than FRIDAY, 2nd June, 1961.

A. G. HARRISON,
Town Clerk.

BOROUGH OF MANSFIELD.

RAVENSDALE HOUSING ESTATE.

CONTRACT 25A—10 TRADITIONAL BUNGALOWS.

TENDERS are invited for the ERECTION of 10 ONE-BEDROOM TRADITIONAL BUNGALOWS.

Drawings may be inspected, and Bills of Quantities, Forms of Tender, General Conditions of Contract and other relevant documents obtained from E. T. CROWE, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield, on payment of a deposit of Two Guineas (£2 2s.) made payable to the Town Council of Mansfield, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, or the return of all loaned documents.

Tenders will only be considered if they are submitted in the envelope provided, which will be suitably endorsed and addressed. This must be sealed and delivered to the undersigned not later than 12 Noon on WEDNESDAY, 21st June, 1961.

The Corporation does not bind itself to accept the lowest or any Tender, and the provisional acceptance of a Tender will be subject to the approval of the Minister of Housing and Local Government.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

CITY OF EXETER.

MAIN DRAINAGE.

PROPOSED PIPING OF PORTION OF STREAM AT NORTHBROOK SCHOOL, WHIPTON, EXETER.

The City Council invite ALTERNATIVE FIXED-PRICE TENDERS for the ABOVE WORK, comprising the Construction of approximately 530yd. of 30in. diameter and 217yd. of 36in. diameter Piping on the Route of the Existing Stream, together with the Construction of Precast Concrete Manholes and ancillary Works. The Works are to be Constructed in either of the following methods:—

(a) Traditional Concrete O.G. Tubes with Flexible Joints, or
(b) Corrugated Riveted Pipes ("Armco" or similar).

Plans and General Conditions of Contract may be seen, and the Form of Tender, Bills of Quantities and Specification obtained, at the office of the undersigned on payment of Two Guineas, which will be refunded on receipt of a bona-fide Tender.

Tenderers may obtain relative copies of the Plans upon receipt of One Guinea, which is non-returnable.

Tenders, endorsed "Northbrook Stream Piping," must be deposited with the undersigned not later than 10 a.m. on MONDAY, 19th June, 1961, in a sealed envelope, which shall not bear any name or mark indicating the sender.

Members of the Council are not to be personally canvassed by or on behalf of persons tendering.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN BRIERLEY,
City Engineer and Surveyor.

Municipal Offices,
7 Southernhay West,
Exeter.
8th May, 1961.

MILLOM RURAL DISTRICT COUNCIL.

WATER SUPPLY SCHEME FOR NORTHERN PARISHES.

TENDERS are invited, on a Fixed-price Basis, from contractors experienced in this class of work, for the ABOVE WORKS, to serve the Parishes of Muncaster, Waberthwaite, Irton-with-Santon, Eskdale, Drigg and Carleton, Bootle and Seascale.

The work consists of Laying approx. 18 miles of 9in. to 2in. dia. Asbestos-cement Main, the Construction of Two Reinforced Concrete Reservoirs of capacities 750,000 gallons and 200,000 gallons, the Erection of a Pumping Station, the Provision and Erection of the Plant for the Pumping Station, and other ancillary works.

A full set of Drawings and documents can be inspected at the Office of F. L. BROUGHTON, B.Sc.(Eng.), A.M.I.C.E., County Engineer, Citadel Chambers, Carlisle, or at the Offices of Millom Water Department, Lancashire Road, Millom. Copies of the main Drawings and Contract documents may be obtained from the County Engineer on payment of a deposit of £5 (cheques to be made payable to Millom Rural District Council) which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all Drawings. Additional Detail Drawings may be obtained on payment of a further £4 which is not returnable.

Tenders should reach me, the undersigned, by FRIDAY, 30th June, 1961, in a plain sealed envelope marked "Tender—Northern Parishes Water Scheme," but bearing no mark or name indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

W. N. KITCHIN,
Clerk of the Council.

Market Square,
Millom, Cumb.
17th May, 1961.

CONTRACTS

BOROUGH OF HALESOWEN.

DEMOLITION OF BEULAH LODGE, STOURBRIDGE ROAD, HALESOWEN.

TENDERS are invited for the DEMOLITION of the ABOVE PROPERTY and CLEARANCE of the SITE. All materials become the property of the contractor.

Particulars may be obtained from the Borough Engineer and Surveyor, Council House, Halesowen, on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, sealed in the official envelope provided, must be delivered to me not later than 12 Noon, SATURDAY, 10th June, 1961.

J. B. McCOOKE,
Town Clerk.

Council House,
Halesowen.
May, 1961.

BOROUGH OF BATLEY.

RECONSTRUCTION AND SURFACING OF LIVERPOOL-LEEDS-HULL TRUNK ROAD, A.62. (From Mill Street to a point approx. 460yd. south-westwards of Mill Street.)

TENDERS are invited from contractors with experience of working in heavily trafficked main roads, for the RECONSTRUCTION and SURFACING WITH HOT ASPHALT AND PRECOATED CHIPPINGS of the LIVERPOOL-LEEDS-HULL TRUNK ROAD, A.62, from Mill Street to a point approx. 460yd. south-westwards of Mill Street.

Copies of the Conditions of Tender and Contract, Specification and Bill of Quantities, together with Form of Tender, may be obtained from the Borough Engineer, Hanover Street, Batley.

Tenders, together with priced Bill of Quantities and other documents, must be delivered to the undersigned not later than Noon on MONDAY, 12th June, 1961. No Tender will be accepted unless it is enclosed in a sealed envelope bearing no name or mark indicating the sender, and endorsed "Tender—Trunk Road Reconstruction," in the top left-hand corner.

The Council does not bind itself to accept the lowest or any Tender.

L. O. BOTTOMLEY,
Town Clerk.

BOROUGH OF ERITH.

HIGHWAYS ACT, 1959—PRIVATE STREET WORKS. CODE OF 1892.

OSBORNE ROAD (PART), DRYHILL ROAD, UPPER GROVE ROAD AND GROVE ROAD, ERITH, KENT.

TENDERS are invited for the MAKING-UP of the ABOVE-MENTIONED ROADS. Osborne Road, which is some 220yd. in length and 40ft. in width, is to have a Concrete Carriageway with Tarpaving Footways. The other roads, which total some 500yd. in length, are 40ft. in width and are to have a Hardcore and Tarmacadam Carriageway with Tarpaving Footways, and include 210yd. of 9in. dia. S.W. Sewer in Salt-glazed Stoneware Pipes.

The above works will be subject to a 12 months' maintenance period.

Tender documents may be obtained from, and Conditions of Contract may be inspected at, the Office of the Borough Engineer and Surveyor, Town Hall, Erith, on payment of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender which is not subsequently withdrawn.

Tenders must be on the form provided, enclosed in a sealed envelope endorsed "Tender for Osborne Road, Dryhill Road, Upper Grove Road and Grove Road Private Street Works," and should be delivered to the undersigned not later than 12 Noon on FRIDAY, 9th June, 1961.

The contractor must be prepared to enter into a formal contract and bond with two sureties for the due performance of the Contract.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. CROMPTON,
Town Clerk.

Town Hall,
Erith, Kent.

FORMBY URBAN DISTRICT COUNCIL.

RECONSTRUCTION AND RESURFACING OF FOOTPATHS AND CARRIAGEWAY—PART OF DUKE STREET, FORMBY.

FIXED-PRICE TENDERS are invited for the ABOVE-MENTIONED WORKS, which include the Reconstruction and Resurfacing of the Carriageway and Footpaths in Bituminous Macadam, Kerbing, and incidental Surface Water Drainage Works, over a length of approx. 200 lin. yd.

The Specification, Bill of Quantities and Form of Tender may be obtained from, and the Plans and Conditions of Contract inspected at, the Office of the Engineer and Surveyor to the Council, Council Offices, Freshfield Road, Formby.

Tenders, in plain sealed envelopes endorsed "Reconstruction—Duke Street," must be delivered to the CLERK OF THE COUNCIL, Council Offices, Formby, near Liverpool, not later than 12 Noon on SATURDAY, 10th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

COSFORD RURAL DISTRICT COUNCIL.

KERSEY SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 1.

TENDERS are invited from experienced contractors for the CONSTRUCTION of about 2,000yd. of 6in. dia. CONCRETE or STONEWARE PIPE SEWERS, Concrete Manholes, etc., and a short length of 4in. dia. Rising Main in Asbestos-cement Pressure Pipes. Also a Sewage Disposal Works comprising Settlement and Balancing Tanks, Percolating Filter, Humus Tank and Sludge Drying Beds, all mainly in Reinforced Concrete, and a Sewage Pumping Station with Reinforced Concrete Storage Sump and Pump Well and Brick Superstructure.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, 59 Tufton Street, Westminster, S.W.1, on payment of a deposit of Five Guineas. Cheques should be made payable to the above Authority, and the amount will be refunded on receipt of a bona-fide Tender and the return of all documents. The Drawings may be inspected at the Engineers' Offices, or at the Council Offices.

The Council does not bind itself to accept the lowest or any Tender.

Tenders, in plain sealed envelopes endorsed "Kersey Sewerage," must be delivered to the undersigned not later than Noon on MONDAY, 19th June, 1961.

C. A. DURRANT,
Clerk of the Council.

Council Offices,
32 High Street,
Hadleigh, Suffolk.

CONTRACTS

COUNTY BOROUGH OF READING.

RESURFACING SCHOOL PLAYGROUNDS.

TENDERS are invited for RESURFACING FOUR EXISTING SCHOOL PLAYGROUNDS with HOT ASPHALT (approx. 3,340 sq. yd.) and ONE EXISTING PLAYGROUND in COLD ASPHALT (550 sq. yd.).

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.

Tenders to be delivered to CHIEF EDUCATION OFFICER, Blagrave Street, Reading, by 12 Noon on 19th June, 1961. No Tender considered unless enclosed in plain sealed envelope endorsed "Resurfacing School Playgrounds," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

COUNTY BOROUGH OF READING.

CONSTRUCTION OF PLAYING FIELD—ALFRED SUTTON SCHOOL.

TENDERS are invited for the CONSTRUCTION of the ABOVE, approx. 15 acres in extent, involving Excavating and Regulating, Seeding, together with incidental Drainage Works.

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.

Tenders, to be delivered to the CHIEF EDUCATION OFFICER, Blagrave Street, Reading, by 12 Noon on 19th JUNE, 1961. No Tender considered unless enclosed in plain sealed envelope endorsed "Construction of Playing Field—Alfred Sutton School," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

BOROUGH OF HARROW.

PUBLIC LIGHTING.

TENDERS are invited for the SUPPLY and INSTALLATION of LANTERNS, LAMPS and CONTROL GEAR, comprising approx. 15 60-W Sodium Units, 1,300 2/20-W Fluorescent Units, and 150 2/40-W Fluorescent Units, in connection with the improved lighting of certain roads in the Borough.

Conditions of Contract may be inspected at the Office or, and a copy of the Form of Tender, Specification and Bills of Quantities obtained on application to, the Borough Engineer, at the Council Offices, 48 Uxbridge Road, Stanmore, Middlesex, on payment of Two Pounds by crossed cheque made payable to the Harrow Corporation, returnable where a bona-fide Tender reaches me within the prescribed time.

Tenders, on prescribed forms, enclosed in a plain envelope bearing no indication of the sender, and endorsed "Tender for Lighting Equipment," to be delivered to my office not later than 10 a.m. on THURSDAY, 8th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

DAVID PRITCHARD,
Town Clerk.

Council Offices,
Harrow Weald Lodge,
Harrow, Middx.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

SWING BRIDGE REPAINTING.

The TOWN IMPROVEMENT AND STREETS COMMITTEE is prepared to receive TENDERS from firms who are experienced in painting large structures for the REPAINTING of the SWING BRIDGE over the RIVER TYNE.

Particulars and Forms of Tender can be obtained and Plan inspected at the Offices of the City Engineer, Town Hall, Newcastle upon Tyne, to whom sealed Tenders, enclosed in the envelope provided, are to be delivered not later than 10 a.m. on TUESDAY, 6th June, 1961.

No Tender will be considered unless it is enclosed in the official envelope provided for that purpose, and such envelope shall not bear any name or mark indicating the sender. Postal franking machines endorsing the name of the firm should not be used.

The Committee does not bind itself to accept the lowest or any Tender.

By Order,
JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
May, 1961.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The HOUSING COMMITTEE of the CORPORATION are prepared to receive TENDERS for the ERECTION of PERMANENT BRICK GARAGES on various sites as follows:—

GROUP 1.—104 Garages on the Newbiggin Hall Estate.

GROUP 2.—52 Garages on the Westerhope and Newbiggin Hall Estates.

Bills of Quantities and Forms of Tender may be obtained on application, in writing, to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, where Plans and Conditions of Contract may be seen. Contractors are asked to state in their application the group or groups for which they desire to tender.

Sealed Tenders must reach the City Architect not later than 10 a.m. on WEDNESDAY, the 7th June, 1961.

No Tender will be received except in the official envelope, which must not bear any name or mark indicating the sender. The Committee do not bind themselves to accept the lowest or any Tender.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
16th May, 1961.

CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS to FORM SCHOOL MEALS KITCHEN at (a) ST. LAWRENCE'S R.C. SCHOOL, CORNBROOK; (b) ALL HALLOWS R.C. SCHOOL, WYTHENSHAWE; and FOUNDATIONS and FINISHING WORKS for TEMPORARY CLASSROOMS at ST. PIUS X R.C. SCHOOL, RUSHOLME.

Specifications and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by JUNE 7th.

CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS and EXTENSIONS to DIDSBURY LIBRARY.

Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by 14th JUNE.

CONTRACTS

COUNTY BOROUGH OF BRIGHTON.

WATER DEPARTMENT.

MAINLAYING—DUPLICATE 12IN. MAIN DIVERSION—THE DROVEWAY, HOVE.

FIXED-PRICE TENDERS invited from experienced contractors for LAYING and JOINTING of approx. 750 lin. yd. 12in. dia. FLEXIBLY JOINTED SPUN-IRON PIPES and Specials in the area of Hove Park.

The total length will comprise Duplicate Mains of equal length laid in one trench. All Spun-iron Pipes and Special Castings will be provided at the Goldstone Pumping Station stockyard.

Conditions of Contract, Specification and Tender documents obtainable from Waterworks Engineer, 12 Bond Street, Brighton, 1, on deposit of £3 3s. which will be refunded on receipt of a bona-fide Tender and return of all documents supplied.

Tenders, enclosed in plain sealed envelopes not bearing any name or mark indicating the sender, and endorsed "Mainlaying—Duplicate 12in. Main Diversion," to be delivered to me before 12 Noon on the 19th JUNE, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton.

COUNTY BOROUGH OF HALIFAX.

PRIVATE STREET WORKS—WOODLESFORD CRESCENT.

TENDERS, based on Fixed-price Rates, are invited for the MAKING-UP of WOODLESFORD CRESCENT, including Surfacing (1,260 sq. yd.), Footways and Accesses (1,325 sq. yd.), and Drainage Works.

Documents from the Borough Engineer, Crossley Street, Halifax, on receipt of £2 (cheques made payable to the Halifax Corporation), returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders should be delivered to the undersigned by FRIDAY, 16th June, 1961.

RICHARD de Z. HALL,
Town Clerk.

Town Hall,
Halifax.

COUNTY BOROUGH OF SMETHWICK.

PRIVATE STREET WORKS—SPRING ROAD (OFF SPON LANE).

TENDERS are invited for the CONSTRUCTION of approx. 1,050 lin. yd. of FOUL and SURFACE WATER SEWERS at the ABOVE, varying from 9in. to 18in. dia., together with Silt Chamber, and appurtenant works.

Tender documents may be obtained on written application to the Borough Engineer, The Council House, Smethwick, accompanied by a crossed cheque for £2 2s. made payable to the Borough Treasurer, Smethwick. This amount will be refunded following receipt of a bona-fide Tender.

Drawings may be seen at the Borough Engineer's Department, 277 High Street, Smethwick.

Sealed Tenders, in the official envelope provided, must be delivered to the undersigned not later than First Post, FRIDAY, 9th June, 1961.

The Corporation is not bound to accept the lowest or any Tender.

E. L. TWYCROSS,
Town Clerk.

Council House,
Smethwick, 40.

BOROUGH OF STOURBRIDGE.

WORCESTER LANE FOUL WATER SEWER AND BROMWICH LANE STORM WATER SEWER.

TENDERS are invited for the LAYING of FOUL and STORM WATER SEWERS in Worcester Lane and Bromwich Lane, Pedmore, Stourbridge.

The work consists of approx. 1,500 lin. yd. of 9in Salt Glazed Stoneware Pipes for Foul Water Sewer and approx. 370 lin. yd. of 9in. Salt Glazed Stoneware Pipes for Storm Water Sewer, together with Brick Manholes, and incidental works.

Bills of Quantities, Specification and Contract documents may be obtained from the undersigned on receipt of a deposit of £2 2s. which will be returned on receipt of a Tender not subsequently withdrawn, and the return of all documents.

Tenders, by Recorded Delivery, in plain sealed envelopes endorsed "Worcester Lane Sewers," to reach the Town Clerk, Council House, Stourbridge, not later than Noon, TUESDAY, 20th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

H. W. MORRIS, B.Sc.(Eng.), A.M.I.C.E., M.I.Mun.E.,
Borough Engineer and Surveyor.

Council House,
Stourbridge.
16th May, 1961.

BOROUGH OF WARWICK.

PERCY ESTATE—CONSTRUCTION OF FOOTPATHS, VERGES AND GREENS.

PHASE III.

TENDERS are invited from experienced contractors for the CONSTRUCTION of PRECAST CONCRETE SLAB FOOTPATHS, Tarmacadam Verges and Grassed Areas, together with other appurtenant work.

Copies of the Tender documents may be obtained from the undersigned on payment of a £2 2s. deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be returned, in the envelope provided, not later than 10 a.m. on THURSDAY, 8th June, 1961, and the Council does not bind itself to accept the lowest or any Tender received.

C. E. BROWN, A.M.I.Mun.E.,
Borough Engineer and Surveyor.

23 Jury Street,
Warwick.

BOROUGH OF ROWLEY REGIS.

SURFACE DRESSING.

TENDERS are invited for the SURFACE DRESSING of CARRIAGEWAYS, having a total area of approx. 69,000 sq. yd.

Specifications and Form of Tender may be obtained from the Borough Engineer and Surveyor, Municipal Buildings, Old Hill, Staffs., upon the deposit of £2 2s. which will be returned on receipt of a bona-fide Tender not afterwards withdrawn.

Tenders must be delivered to the Town Clerk, in the envelope provided, not later than 12 Noon on MONDAY, 29th May, 1961.

G. C. COOKSON,
Town Clerk.

Municipal Buildings,
Old Hill, Staffs.

CONTRACTS

COUNTY COUNCIL OF DURHAM.

TENDERS invited for SUPPLY of the FOLLOWING to CONSETT TECHNICAL COLLEGE:—

(1) Electrical Laboratory Machinery.
(2) Mining Electrical Equipment.
(3) Elementary Engineering Machinery and Equipment.
(4) Welding Machinery.
(5) Heat Engines Laboratory Machinery.

Details and Forms of Tender, returnable by 12th JUNE, 1961, from undersigned.

G. H. METCALFE,
Director of Education.

Shire Hall,
Durham.
15th May, 1961.

BOROUGH OF REIGATE.

TENDERS are invited for RESURFACING 4,500 sq. yd. A.23 BRIGHTON ROAD with 2in. ROLLED ASPHALT B.S.594, also for HEATING, PLANING and RESURFACING 3,500 sq. yd. A.25 HIGH STREET, Reigate, together with ancillary works.

Tender Forms may be obtained from, and Conditions of Contract may be inspected at, the Office of the Borough Surveyor.

Tenders must be returned, in the sealed envelope provided, to the undersigned not later than SATURDAY, 24th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
25th May, 1961.

PONTYPRIDD URBAN DISTRICT COUNCIL.

TREFOREST/PONTYPRIDD/RHONDDA ROAD, A.4058.

IMPROVEMENT BETWEEN DISTILLERY ROAD AND GYFEILLON GARDENS, HOPKINSTOWN, PONTYPRIDD.

The Council invite FIXED-PRICE TENDERS for the ABOVE ROAD IMPROVEMENT SCHEME, involving the Construction of approx. 500 lin. yd. of Surface Water Drains of 6in. and 9in. dia., together with Manholes and other appurtenant works; 18,200 cu. yd. of Excavation; 2,700 lin. yd. of Kerbing and in-situ Concrete Channel; 12,000 sq. yd. of Carriageway Surfacing and Foundation; 6,000 sq. yd. of Footway Surfacing in Tarmacadam and Flagged Paving; and 4,000 cu. yd. Concrete; 2,500 sq. yd. of 15in. Masonry Facing and 600 cu. yd. of Masonry Walling in Retaining and other Walls; together with other ancillary works.

Plans and Conditions of Contract may be seen, and the Specification, Bills of Quantities and Form of Tender obtained from C. B. JONES, Engineer and Surveyor, Municipal Buildings, Pontypridd, on payment of a deposit of Two Guineas which will be returned to the tenderer after the Council have entered into a Contract on the Tenders received, provided he shall have sent in a bona-fide Tender (and returned all documents supplied in connection therewith), and shall not have withdrawn same.

Tenders, in addressed envelope provided for that purpose, sealed and endorsed "Rhondda Road Improvement, Hopkinstown," and bearing no mark indicating the sender, must be received by the undersigned not later than Noon on MONDAY, the 19th day of June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

BERNARD M. MURPHY,
Clerk of the Council.

Municipal Buildings,
Pontypridd, Glam.
April, 1961.

DOVER RURAL DISTRICT COUNCIL.

LYDDEN, COLDRED AND SHEPHERDSWELL SEWERAGE SCHEME.

CONTRACTS 1 AND 2.

TENDERS are invited for the FOLLOWING CONTRACTS:—

(1) The Laying of 14,000yd. of 6in., 9in. and 12in. diameter Sewers, 2,600yd. of 6in. diameter Rising Mains, and the Construction of Two Pumping Stations in the Villages of Lydden, Coldred and Shepherdswell, in the Dover Rural District.
(2) The Supply and Erection of Duplicate 225 g.p.m. Pumping Equipment in No. 1 Pumping Station, Coldred, and 150 g.p.m. Pumping Equipment in Pumping Station No. 2, Shepherdswell.

Contractors wishing to Tender should apply to the Council's Consulting Engineers, MESSRS. J. H. HAISTE AND PARTNERS, 44-6 Bridge Street, Peterborough, enclosing a deposit cheque value Three Guineas in respect of each Contract and made payable to the Dover Rural District Council, such deposit to be refunded on receipt of a bona-fide Tender and the return of the documents.

Drawings may be inspected at either the Council Offices or the Consulting Engineer's Office.

Tenders, in plain sealed envelopes endorsed "Sewerage Contract No. 1 and/or 2," as appropriate, must be submitted to the undersigned not later than 12 Noon on MONDAY, 26th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

W. WILMOTT,
Clerk of the Council.

Council Offices,
Temple Ewell,
Near Dover.

THE COQUET WATER BOARD.

FILTRATION WORKS AND PUMPING STATION, WARKWORTH.

CONTRACT NO. 23—SITE ROADS AND FENCES.

TENDERS are invited for the CONSTRUCTION and MAINTENANCE for 12 months of CERTAIN SITE ROADS, FENCING and CABLE DUCTS at the ABOVE WORKS.

Contract documents and Drawings will be forwarded upon payment of a deposit of Two Guineas, which will be returned upon receipt of a bona-fide Tender and the return of the Contract documents and Drawings, by the Engineer and Manager of the Coquet Water Board, G.P.O. Box 104, Pilgrim Street, Newcastle upon Tyne, 1.

Tenders, duly completed, must be returned to the undersigned in the envelope provided, bearing no name or distinguishing mark indicative of the sender, not later than 10 a.m. on FRIDAY, 16th June, 1961.

The Board does not bind itself to accept the lowest or any Tender.

FRED G. EGNER,
Clerk and Solicitor.

14 Northumberland Square,
North Shields.

CONTRACTS

BOROUGH OF BASINGSTOKE.

TOWN HALL—REMOVAL OF CLOCK TOWER.

TENDERS are invited for the TAKING DOWN of the TOWN HALL CLOCK TOWER which is situated approx. in the centre of the town. The tower is mainly constructed of brick and iron, and the contractor will be responsible for the removal of most of the material.

Specification, Bills of Quantities and Forms of Tender may be obtained from the Borough Surveyor, Municipal Buildings, London Road, Basingstoke, Hants., on payment of a Two Guinea deposit which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned, in the official envelope provided, which must bear no name or mark identifying the sender, not later than Noon on MONDAY, 5th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. PURVIS,
Town Clerk.

Municipal Buildings,
London Road,
Basingstoke.

NAIROBI CITY COUNCIL

KIBURU DIVERSION.

TENDERS FOR THE SUPPLY OF:

(a) STEEL PIPES AND SPECIALS—CONTRACT NO. 1.
(b) SLUICE VALVES AND AIR VALVES—CONTRACT NO. 2.
(c) CHAMBER COVERS AND FRAMES—CONTRACT NO. 3.

TENDERS are invited for the SUPPLY and DELIVERY of ABOVE MATERIALS to the Council's Stores at Longonot for Contract No. 1, and at Sasumua Dam for Contracts No. 2 and No. 3.

Tender documents may be obtained from the Office of the Consulting Engineers, Messrs. HOWARD HUMPHREYS AND SONS, Sadler House, Nairobi, Kenya, on and from the 5th June, 1961, on payment by cheque of a deposit of Shs. 50/- for each contract. The deposit is returnable on receipt of a bona-fide Tender.

When applying for tender documents, applicants should state the names of the manufacturers of the materials they propose to offer.

Tenders shall be on the official form, and are to be delivered to the undersigned in a sealed envelope, endorsed "Tender—AN10/18 Kiburu Diversion—Contract No. 1" (for Pipe Tender), "No. 2" (for Valve Tender), and "No. 3" (for Chamber Cover Tender), but bearing no name or other mark on the envelope indicating the sender, not later than 11.30 a.m. on MONDAY, 3rd July, 1961.

The City Council does not bind itself to accept the lowest or any Tender.

ROBERT LUNN,
Town Clerk.

City Hall,
Nairobi.
15th May, 1961.

DARTON URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

TENDERS are invited from experienced contractors for the FOLLOWING WORKS in the Darton Urban District:

CONTRACT "A"—Reconstruction of approx. 1,000 lin. yd. of Footpaths with Tarmacadam at Darton.

CONTRACT "B"—Resurfacing of approx. 3,800 super. yd. of Concrete Carriageways with Cold Asphalt at Gawber.

Contractors may tender for either or both Contracts, and Specification, Bill of Quantities and Conditions of Contract may be obtained from the Engineer and Surveyor, Council Offices, Darton, near Barnsley.

Sealed Tenders, in the envelopes provided, must be delivered to the undersigned not later than 10 a.m. on MONDAY, the 3rd July, 1961.

J. E. SHACKLETON,
Clerk of the Council.

Council Offices,
Darton,
Near Barnsley.
16th May, 1961.

HORNCHURCH URBAN DISTRICT COUNCIL.

RESURFACING OF DISTRICT ROADS, 1961/62.

TENDERS are invited for the ABOVE WORKS, comprising the Resurfacing of Various Roads with Coarse Cold Asphalt (¾in. thick). The area involved is approx. 21,500 sq. yd.

The Conditions of Contract, Specification and Bills of Quantities may be obtained from the Office of the Engineer and Surveyor, Council Houses, Billet Lane, Hornchurch, upon payment of a deposit of Two Guineas which will be refunded, in the case of a bona-fide Tender, upon acceptance of a Tender by the Council.

The documents and priced Bills of Quantities must be returned to the undersigned not later than Noon on MONDAY, 12th June, 1961, sealed in the envelope provided, which shall bear no indication of the identity of the person(s) tendering.

The Council is not bound to accept the lowest or any Tender.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet Lane,
Hornchurch, Essex.

URBAN DISTRICT COUNCIL OF AIREBOROUGH.

PRIVATE STREET WORKS.

MOORWAY, GUISELEY.

TENDERS are invited for the MAKING-UP of MOORWAY, TRANMERE PARK, Guiseley (length approx. 900ft.), with PITCHED CARRIAGEWAY SURFACED WITH MACADAM and FINE COLD ASPHALT, Surface Water Drainage, and other ancillary works.

Specification, Bill of Quantities and Form of Tender may be obtained from, and General Conditions of Contract inspected at, the Engineer and Surveyor's Office, Micklefield House, Rawdon, near Leeds, on payment of a deposit of £3 3s. which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Moorway—Private Street Works," not later than Noon on FRIDAY, 9th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

RALPH H. HULME,
Clerk of the Council.

Micklefield House,
Rawdon,
Near Leeds.
19th May, 1961.

CONTRACTS

COUNTY BOROUGH OF WALLASEY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

VEHICLES AND PLANT.

TENDERS are invited, in whole or in part, for the SUPPLY of the FOLLOWING:—

(1) Two Ford 5-ton Tipping Vehicles, Diesel (one Ford 5-ton Tipping Vehicle, 1956, to be taken in part exchange).
(2) One Gully Emptier, Diesel, total capacity 600 to 800 gallons.
(3) One Morris Saloon Car, 1,000 c.c. (Morris Minor Saloon Car, 1952, to be taken in part exchange).
(4) One Ferguson Tractor, Industrial, "35" Diesel (Ferguson Petrol Tractor, 1952, to be taken in part exchange).
(5) Two Floataire Trucks.
(6) One B.S.A. Motor Cycle, 250 c.c. (Matchless Motor Cycle, 1949, to be taken in part exchange).
(7) One Air Compressor, 2-wheel trailer type, Diesel, 125 c.f.m., 2-Tool.
(8) One Vibrating Roller, 8/12cwt., Diesel, pedestrian-controlled.
(9) One Electric Concrete Mixer, 5/3½ or 7/5, 400-Volt A.C. 50-cycles 3-phase (Winget Petrol Concrete Mixer, 5/3½, to be taken in part exchange).
(10) One Mechanical Rammer, Wacker Type BS50K.

Forms of Tender, etc., may be obtained from the Borough Engineer and Surveyor, Town Hall, Wallasey. Completed Tenders must be returned, in the envelope provided, to reach the undersigned not later than FRIDAY, 2nd June, 1961.

A. G. HARRISON,
Town Clerk.

BOROUGH OF MANSFIELD.

RAVENSDALE HOUSING ESTATE.

CONTRACT 25A—10 TRADITIONAL BUNGALOWS.

TENDERS are invited for the ERECTION of 10 ONE-BEDROOM TRADITIONAL BUNGALOWS.

Drawings may be inspected, and Bills of Quantities, Forms of Tender, General Conditions of Contract and other relevant documents obtained from E. T. CROWE, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield, on payment of a deposit of Two Guineas (£2 2s.) made payable to the Town Council of Mansfield, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, or the return of all loaned documents.

Tenders will only be considered if they are submitted in the envelope provided, which will be suitably endorsed and addressed. This must be sealed and delivered to the undersigned not later than 12 Noon on WEDNESDAY, 21st June, 1961.

The Corporation does not bind itself to accept the lowest or any Tender, and the provisional acceptance of a Tender will be subject to the approval of the Minister of Housing and Local Government.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

CITY OF EXETER.

MAIN DRAINAGE.

PROPOSED PIPING OF PORTION OF STREAM AT NORTHBROOK SCHOOL, WHIPTON, EXETER.

The City Council invite ALTERNATIVE FIXED-PRICE TENDERS for the ABOVE WORK, comprising the Construction of approximately 530yd. of 30in. diameter and 217yd. of 36in. diameter Piping on the Route of the Existing Stream, together with the Construction of Precast Concrete Manholes and ancillary Works. The Works are to be Constructed in either of the following methods:—

(a) Traditional Concrete O.G. Tubes with Flexible Joints, or
(b) Corrugated Riveted Pipes ("Armco" or similar).

Plans and General Conditions of Contract may be seen, and the Form of Tender, Bills of Quantities and Specification obtained, at the office of the undersigned on payment of Two Guineas, which will be refunded on receipt of a bona-fide Tender.

Tenderers may obtain relative copies of the Plans upon receipt of One Guinea, which is non-returnable.

Tenders, endorsed "Northbrook Stream Piping," must be deposited with the undersigned not later than 10 a.m. on MONDAY, 19th June, 1961, in a sealed envelope, which shall not bear any name or mark indicating the sender.

Members of the Council are not to be personally canvassed by or on behalf of persons tendering.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN BRIERLEY,
City Engineer and Surveyor.

Municipal Offices,
7 Southernhay West,
Exeter.
8th May, 1961.

MILLOM RURAL DISTRICT COUNCIL.

WATER SUPPLY SCHEME FOR NORTHERN PARISHES.

TENDERS are invited, on a Fixed-price Basis, from contractors experienced in this class of work, for the ABOVE WORKS, to serve the Parishes of Muncaster, Waberthwaite, Irton-with-Santon, Eskdale, Drigg and Carleton, Bootle and Seascale.

The work consists of Laying approx. 18 miles of 9in. to 2in. dia. Asbestos-cement Main, the Construction of Two Reinforced Concrete Reservoirs of capacities 750,000 gallons and 200,000 gallons, the Erection of a Pumping Station, the Provision and Erection of the Plant for the Pumping Station, and other ancillary works.

A full set of Drawings and documents can be inspected at the Office of F. L. BROUGHTON, B.Sc.(Eng.), A.M.I.C.E., County Engineer, Citadel Chambers, Carlisle, or at the Offices of Millom Water Department, Lancashire Road, Millom. Copies of the main Drawings and Contract documents may be obtained from the County Engineer on payment of a deposit of £5 (cheques to be made payable to Millom Rural District Council) which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all Drawings. Additional Detail Drawings may be obtained on payment of a further £4 which is not returnable.

Tenders should reach me, the undersigned, by FRIDAY, 30th June, 1961, in a plain sealed envelope marked "Tender—Northern Parishes Water Scheme," but bearing no mark or name indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

W. N. KITCHIN,
Clerk of the Council.

Market Square,
Millom, Cumb.
17th May, 1961.

CONTRACTS

BOROUGH OF HALESOWEN.

DEMOLITION OF BEULAH LODGE, STOURBRIDGE ROAD, HALESOWEN.

TENDERS are invited for the DEMOLITION of the ABOVE PROPERTY and CLEARANCE of the SITE. All materials become the property of the contractor.

Particulars may be obtained from the Borough Engineer and Surveyor, Council House, Halesowen, on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, sealed in the official envelope provided, must be delivered to me not later than 12 Noon, SATURDAY, 10th June, 1961.

J. B. McCOOKE,
Town Clerk.

Council House,
Halesowen.
May, 1961.

BOROUGH OF BATLEY.

RECONSTRUCTION AND SURFACING OF LIVERPOOL-LEEDS-HULL TRUNK ROAD, A.62. (From Mill Street to a point approx. 460yd. south-westwards of Mill Street.)

TENDERS are invited from contractors with experience of working in heavily trafficked main roads, for the RECONSTRUCTION and SURFACING WITH HOT ASPHALT AND PRECOATED CHIPPINGS of the LIVERPOOL-LEEDS-HULL TRUNK ROAD, A.62, from Mill Street to a point approx. 460yd. south-westwards of Mill Street.

Copies of the Conditions of Tender and Contract, Specification and Bill of Quantities, together with Form of Tender, may be obtained from the Borough Engineer, Hanover Street, Batley.

Tenders, together with priced Bill of Quantities and other documents, must be delivered to the undersigned not later than Noon on MONDAY, 12th June, 1961. No Tender will be accepted unless it is enclosed in a sealed envelope bearing no name or mark indicating the sender, and endorsed "Tender—Trunk Road Reconstruction," in the top left-hand corner.

The Council does not bind itself to accept the lowest or any Tender.

L. O. BOTTOMLEY,
Town Clerk.

BOROUGH OF ERITH.

HIGHWAYS ACT, 1959—PRIVATE STREET WORKS. CODE OF 1892.

OSBORNE ROAD (PART), DRYHILL ROAD, UPPER GROVE ROAD AND GROVE ROAD, ERITH, KENT.

TENDERS are invited for the MAKING-UP of the ABOVE-MENTIONED ROADS, Osborne Road, which is some 220yd. in length and 40ft. in width, is to have a Concrete Carriageway with Tarpaving Footways. The other roads, which total some 500yd. in length, are 40ft. in width and are to have a Hardcore and Tarmacadam Carriageway with Tarpaving Footways, and include 210yd. of 9in. dia. S.W. Sewer in Salt-glazed Stoneware Pipes.

The above works will be subject to a 12 months' maintenance period.

Tender documents may be obtained from, and Conditions of Contract may be inspected at, the Office of the Borough Engineer and Surveyor, Town Hall, Erith, on payment of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender which is not subsequently withdrawn.

Tenders must be on the form provided, enclosed in a sealed envelope endorsed "Tender for Osborne Road, Dryhill Road, Upper Grove Road and Grove Road Private Street Works," and should be delivered to the undersigned not later than 12 Noon on FRIDAY, 9th June, 1961.

The contractor must be prepared to enter into a formal contract and bond with two sureties for the due performance of the Contract.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. CROMPTON,
Town Clerk.

Town Hall,
Erith, Kent.

FORMBY URBAN DISTRICT COUNCIL.

RECONSTRUCTION AND RESURFACING OF FOOTPATHS AND CARRIAGEWAY—PART OF DUKE STREET, FORMBY.

FIXED-PRICE TENDERS are invited for the ABOVE-MENTIONED WORKS, which include the Reconstruction and Resurfacing of the Carriageway and Footpaths in Bituminous Macadam, Kerbing, and incidental Surface Water Drainage Works, over a length of approx. 200 lin. yd.

The Specification, Bill of Quantities and Form of Tender may be obtained from, and the Plans and Conditions of Contract inspected at, the Office of the Engineer and Surveyor to the Council, Council Offices, Freshfield Road, Formby.

Tenders, in plain sealed envelopes endorsed "Reconstruction—Duke Street," must be delivered to the CLERK OF THE COUNCIL, Council Offices, Formby, near Liverpool, not later than 12 Noon on SATURDAY, 10th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

COSFORD RURAL DISTRICT COUNCIL.

KERSEY SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 1.

TENDERS are invited from experienced contractors for the CONSTRUCTION of about 2,000yd. of 6in. dia. CONCRETE or STONEWARE PIPE SEWERS, Concrete Manholes, etc., and a short length of 4in. dia. Rising Main in Asbestos-cement Pressure Pipes. Also a Sewage Disposal Works comprising Settlement and Balancing Tanks, Percolating Filter, Humus Tank and Sludge Drying Beds, all mainly in Reinforced Concrete, and a Sewage Pumping Station with Reinforced Concrete Storage Sump and Pump Well and Brick Superstructure.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, 59 Tufton Street, Westminster, S.W.1, on payment of a deposit of Five Guineas. Cheques should be made payable to the above Authority, and the amount will be refunded on receipt of a bona-fide Tender and the return of all documents. The Drawings may be inspected at the Engineers' Offices, or at the Council Offices.

The Council does not bind itself to accept the lowest or any Tender.

Tenders, in plain sealed envelopes endorsed "Kersey Sewerage," must be delivered to the undersigned not later than Noon on MONDAY, 19th June, 1961.

C. A. DURRANT,
Clerk of the Council.

Council Offices,
32 High Street,
Hadleigh, Suffolk.

CONTRACTS

COUNTY BOROUGH OF READING.

RESURFACING SCHOOL PLAYGROUNDS.

TENDERS are invited for RESURFACING FOUR EXISTING SCHOOL PLAYGROUNDS with HOT ASPHALT (approx. 3,340 sq. yd.) and ONE EXISTING PLAYGROUND in COLD ASPHALT (550 sq. yd.).

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.

Tenders to be delivered to CHIEF EDUCATION OFFICER, Blagrave Street, Reading, by 12 Noon on 19th June, 1961. No Tender considered unless enclosed in plain sealed envelope endorsed "Resurfacing School Playgrounds," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

COUNTY BOROUGH OF READING.

CONSTRUCTION OF PLAYING FIELD—ALFRED SUTTON SCHOOL.

TENDERS are invited for the CONSTRUCTION of the ABOVE, approx. 15 acres in extent, involving Excavating and Regulating, Seeding, together with incidental Drainage Works.

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.

Tenders, to be delivered to the CHIEF EDUCATION OFFICER, Blagrave Street, Reading, by 12 Noon on 19th JUNE, 1961. No Tender considered unless enclosed in plain sealed envelope endorsed "Construction of Playing Field—Alfred Sutton School," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

BOROUGH OF HARROW.

PUBLIC LIGHTING.

TENDERS are invited for the SUPPLY and INSTALLATION of LANTERNS, LAMPS and CONTROL GEAR, comprising approx. 15 60-W Sodium Units, 1,300 2/20-W Fluorescent Units, and 150 2/40-W Fluorescent Units, in connection with the improved lighting of certain roads in the Borough.

Conditions of Contract may be inspected at the Office or, and a copy of the Form of Tender, Specification and Bills of Quantities obtained on application to, the Borough Engineer, at the Council Offices, 48 Uxbridge Road, Stanmore, Middlesex, on payment of Two Pounds by crossed cheque made payable to the Harrow Corporation, returnable where a bona-fide Tender reaches me within the prescribed time.

Tenders, on prescribed forms, enclosed in a plain envelope bearing no indication of the sender, and endorsed "Tender for Lighting Equipment," to be delivered to my office not later than 10 a.m. on THURSDAY, 8th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

DAVID PRITCHARD,
Town Clerk.

Council Offices,
Harrow Weald Lodge,
Harrow, Middx.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

SWING BRIDGE REPAINTING.

The TOWN IMPROVEMENT AND STREETS COMMITTEE is prepared to receive TENDERS from firms who are experienced in painting large structures for the REPAINTING of the SWING BRIDGE over the RIVER TYNE.

Particulars and Forms of Tender can be obtained and Plan inspected at the Offices of the City Engineer, Town Hall, Newcastle upon Tyne, to whom sealed Tenders, enclosed in the envelope provided, are to be delivered not later than 10 a.m. on TUESDAY, 6th June, 1961.

No Tender will be considered unless it is enclosed in the official envelope provided for that purpose, and such envelope shall not bear any name or mark indicating the sender. Postal franking machines endorsing the name of the firm should not be used.

The Committee does not bind itself to accept the lowest or any Tender.

By Order,
JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
May, 1961.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The HOUSING COMMITTEE of the CORPORATION are prepared to receive TENDERS for the ERECTION of PERMANENT BRICK GARAGES on various sites as follows:—

GROUP 1.—104 Garages on the Newbiggin Hall Estate.
GROUP 2.—52 Garages on the Westerhope and Newbiggin Hall Estates.

Bills of Quantities and Forms of Tender may be obtained on application, in writing, to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, where Plans and Conditions of Contract may be seen. Contractors are asked to state in their application the group or groups for which they desire to tender.

Sealed Tenders must reach the City Architect not later than 10 a.m. on WEDNESDAY, the 7th June, 1961.

No Tender will be received except in the official envelope, which must not bear any name or mark indicating the sender. The Committee do not bind themselves to accept the lowest or any Tender.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
16th May, 1961.

CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS to FORM SCHOOL MEALS KITCHEN at (a) ST. LAWRENCE'S R.C. SCHOOL, CORNBROOK; (b) ALL HALLOWS R.C. SCHOOL, WYTHENSHAWE; and FOUNDATIONS and FINISHING WORKS for TEMPORARY CLASSROOMS at ST. PIUS X R.C. SCHOOL, RUSHOLME.

Specifications and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by JUNE 7th.

CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS and EXTENSIONS to DIDSBURY LIBRARY.

Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by 14th JUNE.

CONTRACTS

BOROUGH OF CHELMSFORD.

WATERLOO LANE SWIMMING POOL.

PURIFICATION AND HEATING AND VENTILATING PLANT.

TENDERS are invited for the SUPPLY and INSTALLATION of: (a) PUMPING and PURIFICATION PLANT; (b) HEATING and VENTILATING PLANT, which will be Sub-contracts of the main contract of constructing an indoor swimming pool.

Specification and Form of Tender may be obtained from the Borough Engineer and Surveyor.

Sealed Tenders, in the envelopes provided, must be delivered to the undersigned not later than Noon on TUESDAY, 11th July, 1961.

B. A. FRANCIS,
Town Clerk.

Municipal Offices,
Coval Lane,
Chelmsford.

BOROUGH OF CHELMSFORD.

CONSTRUCTION OF VEHICLE LAY-BYS.

TENDERS are invited for the CONSTRUCTION of 10 LAY-BYS on the A.12 TRUNK ROAD and ONE LAY-BY on BROOMFIELD ROAD, with a Lean-Mix Concrete Base and Bitumen Macadam Surfacing. A FURTHER LAY-BY is to be CONSTRUCTED in Reinforced Concrete on TRENT ROAD.

Copies of the Conditions of Contract, Forms of Tender, Specification and Bills of Quantities may be obtained from, and the Drawings inspected at, the Office of the Borough Engineer and Surveyor, Municipal Offices, Coval Lane, Chelmsford, on payment of a deposit of Two Guineas which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Tenders, in the envelopes provided, must be delivered to the undersigned not later than Noon on MONDAY, 12th June, 1961.

B. A. FRANCIS,
Town Clerk.

Municipal Offices,
Coval Lane,
Chelmsford.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 734—36 ONE- AND TWO-STOREY DWELLINGS, ETC.—
REDNAL ROAD, HIGHCROFT ESTATE, WEST HEATH.

The HOUSEBUILDING COMMITTEE invite TENDERS for the ERECTION of the ABOVE.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of A. G. SHEPPARD FIDLER, City Architect, Baskerville House, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 1st JUNE, 1961. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona-fide Tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on MONDAY, the 3rd July, 1961. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

CRICKLADE AND WOOTTON BASSETT RURAL DISTRICT COUNCIL.

ERECTION OF 14 HOUSES AND SIX BUNGALOWS (BRICK)—LYNEHAM.

TENDERS are invited for the ABOVE, including Site and Substructure Works, Drains, Water Services, Fences, etc., in accordance with Drawings, Specifications and Bills of Quantities prepared by J. C. GRINDLEY, A.M.I.C.E., Engineer and Surveyor, at the address below.

The Conditions of Contract may be seen at the Office of the Engineer and Surveyor, from whom the Drawings, Specifications, Bills of Quantities and Form of Tender may be obtained on payment of a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender and return of all documents.

Tenders, in plain sealed envelopes endorsed "14 Houses and Six Bungalows—Lyneham," must be delivered to the undersigned not later than 10 a.m. on MONDAY, the 10th July, 1961.

The Council does not bind itself to accept the lowest or any Tender received.

W. J. HOSIER,
Clerk of the Council.

Manor House,
Wootton Bassett,
Swindon, Wilts.

ASHBOURNE RURAL DISTRICT COUNCIL.

THORPE SEWERAGE AND SEWAGE DISPOSAL.

FIXED-PRICE TENDERS are invited from experienced civil engineering contractors for the CONSTRUCTION of approx. 1,420yd. of 6in. dia. SEWERS, together with Manholes and a Small Sewage Disposal Works comprising Detritus Tank, Pyramidal Settlement Tank, Circular Bacterial Filter Bed, Humus Tanks, Sludge Drying Beds, Site Elector Station, Access Road, and other appurtenant works.

Plans, Specification and Bills of Quantities may be seen at the Offices of the Council's Consulting Engineers, MESSRS. ELLIOTT AND BROWN, Chartered Civil Engineers, Stanley House, Pelham Road, Nottingham, and copies of the Tender documents may be obtained from them on deposit of Five Guineas (by cheque payable to the Ashbourne R.D.C.) which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents loaned to the contractor.

Tenders, endorsed "Thorpe Sewerage and Sewage Disposal," to be delivered in a plain sealed envelope to the undersigned not later than the First Post on WEDNESDAY, 21st June, 1961.

The lowest or any Tender will not necessarily be accepted, and the work will be subject to final approval of the Ministry of Housing and Local Government after submission of an estimate based on a provisionally accepted Tender.

F. H. THOMAS,
Clerk of the Council.

Compton Offices,
Ashbourne,
Derbyshire.
17th May, 1961.

CONTRACTS

COUNTY BOROUGH OF MIDDLESBROUGH.

ERECTION of the FOLLOWING:

(a) 41 Dwellings in Three- and Four-storey Blocks at St. Hilda's. Work includes Erection of Dwellings, Demolition of certain existing Properties, and Reconstruction of some existing Roadways.

(b) 33 Dwellings and 11 Garages at Easterside—Group 3S.

Tenders are invited for the ABOVE WORK.

Bills of Quantities from Borough Engineer's Department—Two Guineas in each case.

Tenders to be received by TOWN CLERK on or before MONDAY, 26th June, 1961.

BOROUGH OF GILLINGHAM.

EXTERNAL PAINTING OF COUNCIL HOUSES.

TENDERS are invited for the EXTERNAL PAINTING of 302 COUNCIL HOUSES within the TWYDALL/BEECHINGS ESTATE, Gillingham.

Applications for documents should be addressed to the Housing Manager, Municipal Buildings, Gillingham, Kent, accompanied by a cheque for £1 1s. as a deposit, which will be refunded on receipt of a bona-fide Tender and return of issued documents.

Tenders, endorsed "Painting of Council Houses," to be delivered to the undersigned not later than MONDAY, 5th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

RONALD P. CROMPTON,
Acting Town Clerk.

Municipal Buildings,
Gillingham, Kent.
15th May, 1961.

LITTLEBOROUGH URBAN DISTRICT COUNCIL.

The above Council invite TENDERS for the PAINTING of 178 STEEL CLASS "A" (25FT.) STREET LIGHTING COLUMNS.

Specification, General Conditions and Form of Tender may be obtained on application to D. W. ALLISON, B.Sc.(Eng.), A.M.I.Mun.E., Engineer and Surveyor, Council Offices, Littleborough.

No Tender will be received except in a plain sealed envelope endorsed "Tender for Painting Street Lighting Columns," but which must not bear any name or mark indicating the sender.

Tenders, on the prescribed form, sealed and endorsed as above, must be received by the undersigned not later than First Post on MONDAY, 12th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. C. CLOUGH,
Clerk of the Council.

Council Offices,
Littleborough.
20th May, 1961.

GUILDFORD RURAL DISTRICT COUNCIL.

Applications are invited from contractors wishing to receive Specification for MODERNISATION of 44 HOUSES at GRANGE COTTAGES, ASH.

Specification and Form of Tender may be obtained from the Housing and Valuation Officer on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender. Cheques should be made payable to the Guildford R.D.C. and sent to the Housing and Valuation Officer.

Tenders, in the endorsed envelopes provided, are to be returned to the undersigned not later than 9.30 a.m. on MONDAY, 5th June, 1961.

E. W. SELLINGS,
Clerk of the Council.

Millmead House,
Guildford.

GUILDFORD RURAL DISTRICT COUNCIL.

Applications are invited from contractors wishing to receive Specification for MODERNISATION of 12 HOUSES at CLASFORD COTTAGES, WORPLESDON.

Specification and Form of Tender may be obtained from the Housing and Valuation Officer on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender. Cheques should be made payable to the Guildford R.D.C. and sent to the Housing and Valuation Officer.

Tenders, in the endorsed envelopes provided, are to be returned to the undersigned not later than 9.30 a.m. on MONDAY, 5th June, 1961.

E. W. SELLINGS,
Clerk of the Council.

Millmead House,
Guildford.

WEST WILTS. WATER BOARD.

CONTRACT NO. 14.

RELINING OF CODFORD WELL.

TENDERS are invited from experienced contractors for the RELINING of the ABOVE WELL with a Steel Casing and Concrete Filling.

Tender Forms, Conditions of Contract, Specification and Drawings may be obtained from the Engineer and Manager on payment of a deposit of £2 2s. (made payable to the Board) which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be made on the official form and must be delivered to the Clerk of the Board, in the envelope provided, endorsed "Relining of Codford Well," and bearing no name or mark indicating the sender, not later than First Post on MONDAY, the 12th June, 1961.

The Board do not bind themselves to accept the lowest or any Tender.

J. A. YOUNG, A.M.I.C.E., A.M.I.Mun.E., A.M.I.Struct.E., A.M.I.W.E.,
Engineer and Manager.

West Wilts. Water Board,
55 Boreham Road,
Warminster, Wilts.

EAST SUFFOLK AND NORFOLK RIVER BOARD.

HIRE OF PLANT.

The Board requires for HIRE for a period of approx. four months one ⅜ cu. yd. capacity DRAGLINE EXCAVATOR and four 3 cu. yd. DUMPERS for work at Orfordness Island, Suffolk, commencing about mid-June, 1961.

Further details and Tender Forms may be obtained from the Chief Engineer, K. E. COTTON, M.B.E., and are to be returned to me by 9 a.m. on the 7th JUNE, 1961.

S. V. ELLIS,
Clerk of the Board.

The Cedars,
Albemarle Road,
Norwich.

CONTRACTS

YORKSHIRE WEST RIDING COUNTY COUNCIL.

TENDERS are invited for PAINTING of SCHOOLS in Rothwell, Outwood, Stourton, Methley, Stanley, Horbury, Ossett and Wakefield Rural District. Specifications and Forms of Tender obtainable from Mr. H. THORPE, Divisional Education Officer, Education Office, 2 St. John's Square, Wakefield, by whom completed Tenders must be received not later than 30th MAY, 1961. Tenders received after this date will not be opened.

BOROUGH OF BILSTON.

CONTRACT NO. 257.

RESURFACING OF OXFORD STREET AND WELLINGTON ROAD/WOLVERHAMPTON ROAD JUNCTION.

TENDERS are invited for HEATING, PLANING and SCARIFYING of existing SURFACE MATERIAL, and LAYING of approx. 6,000 sq. yd. of HOT ROLLED ASPHALT.

Drawings may be inspected at the Office of the Borough Surveyor, Municipal Buildings, Hall Street, Bilston, Staffs., from whom Tender documents may be obtained upon payment of a deposit of Two Guineas, which sum will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Contract No. 257—Resurfacing of Oxford Street and Wellington Road/Wolverhampton Road Junction," to be delivered to the undersigned not later than 12 Noon on MONDAY, the 12th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

A. M. WILLIAMS,
Town Clerk.

Town Hall,
Bilston, Staffs.

BOROUGH OF BILSTON.

CONTRACT NO. 256.

RECONSTRUCTION OF THOMPSON STREET, HARTSHORN STREET AND SHALE STREET, BILSTON.

TENDERS are invited from public works contractors for the ABOVE CONTRACT, which includes the Laying of approx. 1,500 lin. yd. of Precast Concrete Kerb and Channel, 3,000 sq. yd. of Precast Concrete Paving Flags in Footways, and Resurfacing of 5,000 sq. yd. of Carriageways with Hot Rolled Asphalt.

Drawings may be inspected at the Office of the Borough Engineer, Municipal Buildings, Hall Street, Bilston, Staffs., from whom Tender documents may also be obtained upon a payment of a deposit of Two Guineas, which sum will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Contract No. 256—Thompson Street, Hartshorn Street and Shale Street Reconstruction," are to be delivered to the undersigned not later than 12 Noon on MONDAY, the 12th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

A. M. WILLIAMS,
Town Clerk.

Town Hall,
Bilston, Staffs.
May, 1961.

BOROUGH OF BILSTON.

SURFACE DRESSING.

TENDERS are invited for the SURFACE DRESSING of ROADS within the Borough.

Specification and Form of Tender may be obtained on application from the Borough Surveyor, Municipal Buildings, Hall Street, Bilston, Staffs.

Tenders, in plain sealed envelopes endorsed "Tender for Contract No. 258—Surface Dressing," should be delivered to the undersigned not later than 12 Noon on MONDAY, the 12th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

A. M. WILLIAMS,
Town Clerk.

Town Hall,
Bilston, Staffs.
May, 1961.

EAST DEREHAM URBAN DISTRICT COUNCIL.

FOUL AND SURFACE WATER SEWERS—COMMERCIAL ROAD.

TENDERS are invited for the FOLLOWING—

(1) Re-laying 130 lin. yd. of 12in. dia. G.S.W. Pipes in Spun-Iron, with a possible extension of 196 lin. yd. Depth not exceeding 25ft.

(2) Laying 303 lin. yd. of 6in. dia. Surface Water Sewer. Depth not exceeding 8ft.

(3) Manholes and ancillary works.

Bills of Quantities, Specification and Plan may be obtained from the Engineer and Surveyor to the Council on deposit of £2, which is returnable on receipt of a bona-fide Tender.

Tenders, endorsed "Commercial Road Sewer," should be delivered to the undersigned in a plain sealed envelope not later than 13th JUNE, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

IVOR G. WINN,
Clerk of the Council.

Assembly Rooms,
Dereham.
17th May, 1961.

BEDALE RURAL DISTRICT COUNCIL.

THORNTON WATLASS SEWERAGE SCHEME.

TENDERS are invited for LAYING of approx. 1,165 lin. yd. of 6in. and 4in. SEWERS, with Drains, together with Manholes, and the Construction of Sewage Disposal Works, with all ancillary works.

Plans and Specifications may be inspected at the Council Offices or at the Offices of W. K. RODWELL, A.M.I.C.E., Consulting Engineer, 40 North Street, Wetherby, from whom Bills of Quantities may be obtained. Applications should be accompanied by a cheque for Two Guineas made payable to Bedale Rural District Council, which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Thornton Watlass Sewerage Scheme," to reach the undersigned by Noon on the 3rd day of JULY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

S. W. MEGSON,
Clerk of the Council.

Council Offices,
Bedale Hall,
Bedale.
18th May, 1961.

CONTRACTS

BOROUGH OF BASINGSTOKE.

SOUTH HAM ESTATE, BASINGSTOKE.

TENDERS are invited for the ERECTION of a total of 413 DWELLINGS, comprising Two- and Three-storey Flats, Houses and Bungalows; also 264 Garages. The Scheme is situated on one site where main roads and sewers are now under construction, but included in the Contract will be Ancillary Service Roads and Footpath Works.

Forms of Tender, Bills of Quantities and General Conditions of Contract may be obtained from the Borough Architect, ERIC ALMOND, Dipl.Arch., A.R.I.B.A., Municipal Buildings, Basingstoke, on payment of a deposit of £3 3s. which will be returned on receipt of a bona-fide Tender.

Tenders are to be returned to the undersigned by Noon on TUESDAY, 27th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. PURVIS,
Town Clerk.

BEAUMARIS BOROUGH COUNCIL.

ERECTION OF FOUR HOUSES AND SIX FLATS AT UPPER MAESHYFRYD SITE, BEAUMARIS.

Contractors desirous of submitting a TENDER, based on Plans and Specification for the ABOVE, are invited to forward their names to the County Architect, Shire Hall, Llangefni, Anglesey, on or before the 31st MAY, 1961.

Tenders must be received by the undersigned not later than 12 Noon on MONDAY, 19th June, 1961.

The Council does not bind itself to accept the lowest or any Tender, nor will any allowance be made for tendering.

J. HUGH THOMAS,
Town Clerk.

Town Clerk's Office,
Municipal Buildings,
Castle Street,
Beaumaris.
18th May, 1961.

CITY OF LEEDS.

EDUCATION DEPARTMENT.

TENDERS are invited from industrial cleaning firms of standing for CLEANING GLASS and CURTAIN WALLING at the LEEDS CENTRAL COLLEGES. Tender Forms, Specifications, etc., from the CHIEF EDUCATION OFFICER, Education Offices, Leeds, 1.

Tenders, in the envelope provided, to be returned not later than Noon on MONDAY, 12th June, 1961

CITY OF BIRMINGHAM.

TO PUBLIC WORKS CONTRACTORS.

The PUBLIC WORKS COMMITTEE invite TENDERS on a Fixed-price Basis for a Measure and Value Contract for FOOTWAY PAVING WORK in VARIOUS ROADS in the city.

Copies of the Specifications, Bills of Quantities and Forms of Tender may be obtained on payment of £2 2s. at the Office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Baskerville House, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.21), Council House, Birmingham, 1, not later than 12 Noon on WEDNESDAY, 14th June, 1961, when they will be opened.

Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

CITY OF BIRMINGHAM.

TO PUBLIC WORKS CONTRACTORS.

The PUBLIC WORKS COMMITTEE invite TENDERS on a Fixed-price Basis for a Measure and Value Contract for the WIDENING of EXISTING CARRIAGEWAY, and Construction of Column Bases, together with other ancillary works, in connection with the Erection of a Temporary Car Bridge at CAMP HILL-COVENTRY ROAD JUNCTION.

Copies of the Specifications, Bills of Quantities and Forms of Tender may be obtained on payment of £2 2s. at the Office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Baskerville House, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Plans for the work can be seen at Room 339, Baskerville House.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.21), Council House, Birmingham, 1, not later than 12 Noon on WEDNESDAY, 14th June, 1961, when they will be opened.

Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

CITY OF CARDIFF.

LLANISHEN RESERVOIR SEWER.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of approx. 745 lin. yd. of 18in. dia. and 262 lin. yd. of 15in. dia. CONCRETE PIPE FOUL SEWER, together with Manholes and appurtenant works.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be obtained from the City Surveyor, at whose Office Drawings and Conditions of Contract may be inspected, and to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Llanishen Reservoir Sewer," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post or Recorded Delivery so as to be received not later than 15th JUNE, 1961.

The envelope must not bear the name of, or any mark indicating the identity of, the tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
16th May, 1961.

CONTRACTS

COUNTY BOROUGH OF NORTHAMPTON.

UNIFORM CLOTHING.

TENDERS are invited, before JUNE 10th, for SUPPLY of TUNICS and TROUSERS. Full particulars from General Manager, Corporation Transport Offices, St. James', Northampton.

C. E. VIVIAN ROWE,
Town Clerk.

COUNTY BOROUGH OF BLACKBURN.

TENDERS are invited for the LAYOUT of approx. 17 acres of PLAYING FIELDS.

The works involve Weedkilling, Levelling, Carting Soil, Spreading, Cultivating and Seeding.

Persons interested should apply to the Borough Engineer, Town Hall, Blackburn, for Specification and Bills of Quantities by JUNE 7th, 1961.

FRANK SQUIRES,
Town Clerk.

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

SUPPLY OF PNEUMATIC TOOLS AND MUFFLE COVERS AND MOBILE AIR COMPRESSOR.

TENDERS are invited for the SUPPLY of (i) Six PNEUMATIC BREAKERS and MUFFLE COVERS; (ii) One Trailer-mounted ROTARY AIR COMPRESSOR with Diesel Engine, free air delivery at 100 p.s.i. approx. 125 c.f.m., to operate two heavy tools. One 1948 Broomwade Compressor, Type SVD1, to be taken in part exchange.

Tender Forms and Specifications obtainable from the Borough Engineer, Town Hall, Bournemouth, returnable to me by the 10th JUNE, 1961.

A. LINDSAY CLEGG,
Town Clerk.

BOROUGH OF BOSTON.

SURFACE DRESSING.

TENDERS are invited for the SURFACE DRESSING of ROADS, comprising approx. 105,000 super. yd.

A Specification and Particulars may be obtained from the Borough Surveyor, Municipal Buildings, Boston, Lincs.

Tenders, in plain sealed envelopes endorsed "Surface Dressing," must be received by the undersigned not later than the 12th JUNE, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

C. L. HOFFROCK GRIFFITHS,
Town Clerk.

Municipal Buildings,
Boston, Lincs.

URBAN DISTRICT COUNCIL OF FELTHAM.

SEWERAGE SCHEME—HATTON ROAD, BEDFONT.

TENDERS are invited for the LAYING of approx. 750 lin. yd. of 9in. dia. SPUN-IRON SEWER and 120 lin. yd. of 6in. dia. SALT GLAZED SEWER, at an average depth of 14ft., together with Manholes and ancillary works.

Tender documents may be obtained from the Engineer and Surveyor on payment of Two Guineas deposit, which will be returned on receipt of a bona-fide Tender.

Completed Tenders, in a plain envelope endorsed "Hatton Road Sewer," must be returned to the undersigned not later than 5 p.m. on WEDNESDAY, 28th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

M. W. COUPE,
Clerk of the Council.

Council Offices,
Feltham, Middx.
18th May, 1961.

BRENTWOOD URBAN DISTRICT COUNCIL.

TENDERS are invited for the CONSTRUCTION of Two HARD TENNIS COURTS at WEST HORNDON, Brentwood. Details from Engineer and Surveyor, Council Offices, Ingrave Road, Brentwood. Tenders to me by 12th JUNE, 1961.

CLEMENT BOOTH,
Clerk of the Council.

Council Offices,
Brentwood.

THE URBAN DISTRICT COUNCIL OF ABERDARE.

DEMOLITION AND EXCAVATION WORKS.

TENDERS are invited from experienced contractors for the DEMOLITION of about 400,000 cu. ft. of BUILDINGS and for about 650 cu. yd. of EXCAVATION.

Specifications and Tender Forms may be obtained from the Engineer and Surveyor to the Council, Vestry Hall, Aberdare, on receipt of Two Guineas, which will be returned on receipt of a bona-fide Tender and all loaned documents.

Tenders, in plain sealed envelopes, bearing no mark or indication of the sender, but endorsed "Demolition and Excavation Works," must reach me on or before FRIDAY, 16th June, 1961.

D. G. JAMES,
Clerk of the Council.

Town Hall,
Aberdare.
18th May, 1961.

THE RURAL DISTRICT COUNCIL OF GODSTONE.

12 TENANT PURCHASE HOUSES—LAGHAM ROAD, SOUTH GODSTONE.

TENDERS are invited for the ERECTION of SIX PAIRS of SEMI-DETACHED TENANT PURCHASE HOUSES at LAGHAM ROAD and HUNTERS CHASE, South Godstone.

Bills of Quantities, Conditions of Contract and Form of Tender may be obtained on application to the Council's Engineer and Surveyor at the Council Offices, Oxted, Surrey, on payment of a deposit of Two Guineas which will be returned on receipt of a bona-fide Tender and the return of all documents supplied.

Drawings may be inspected at the Office of the Engineer and Surveyor during the ordinary office hours.

Tenders, sealed in a plain envelope endorsed "Tender for T.P. Houses—Lagham Road," and addressed to the Clerk of the Council, Council Offices, Oxted, must be delivered not later than Noon on THURSDAY, 22nd June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

M. HAWORTH,
Clerk of the Council.

Council Offices,
Oxted, Surrey.

CONTRACTS

COUNTY BOROUGH OF WALSALL.

PUBLIC WORKS DEPARTMENT.

FREER STREET CAR PARK.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of a SINGLE-TIER CAR PARK in FREER STREET, to be Constructed in Reinforced Concrete.

Forms of Tender and appropriate documents can be obtained from the undersigned on the deposit of Two Guineas, returnable on receipt of a bona-fide Tender.

Tenders must be sent in a sealed envelope addressed to the Town Clerk, Council House, Walsall, bearing the words "Freer Street Car Park," and are to be received not later than 12 Noon on MONDAY, 12th June, 1961.

Any Tender received after the time stated or otherwise than in an envelope endorsed as required may be rejected.

An envelope suitably addressed and endorsed will be supplied with the Form of Tender, and it is desired that this envelope be used.

The Council do not bind themselves to accept the lowest or any Tender.

M. E. HABERSHON,
Borough Engineer and Surveyor.

Council House,
Walsall.
18th May, 1961.

BOROUGH OF SOUTHGATE.

RESURFACING OF PLAYGROUNDS AT VARIOUS SCHOOLS IN THE BOROUGH.

TENDERS are invited from specialist firms for SUPPLYING and LAYING approximately 3,000 sq. yd. of FINE COLD ASPHALT to VARIOUS SCHOOL PLAYGROUNDS in the Borough.

Contractors wishing to Tender should apply to the Borough Engineer and Surveyor for a copy of the relevant documents.

Tenders must be received by the undersigned not later than 9 a.m. on WEDNESDAY, 7th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green,
London, N.13.
May, 1961.

HALESOWEN BOROUGH COUNCIL.

ERECTION OF COVERED SWIMMING POOL, GREAT CORNBOW, HALESOWEN.
(INCLUDING BUFFET, SPECTATORS' GALLERY AND CLUBROOM.)

Contractors desirous of submitting a TENDER for the ABOVE PROJECT are invited to submit their names for approval by the Council to MR. T. W. TIVEY, M.I.Mun.E., Borough Engineer and Surveyor, P.O. Box 14, Council House, Halesowen, near Birmingham, not later than 12 Noon on WEDNESDAY, 7th June, 1961.

The building will be of framed construction, steel to the pool hall, and reinforced concrete elsewhere, with brick and concrete slab cladding, and flat roofs of aluminium decking. The pool itself will be formed with impermeable concrete.

J. B. McCOOKE,
Town Clerk.

SITTINGBOURNE AND MILTON URBAN DISTRICT COUNCIL.

PROVISION OF WATER MAINS AT FULSTON MANOR ESTATE.

TENDERS are invited for the PROVISION and LAYING of NEW WATER MAINS at the ABOVE ESTATE.

The work comprises 670yd. of 6in. 185yd. of 4in., 170yd. of 3in., and 1,000yd. of 2in. Spun-iron Pipes, together with ancillary Works.

Specification, Conditions of Contract, Bill of Quantities and Form of Tender may be obtained on application to the Engineer and Surveyor, Lydbrook, 89 London Road, Sittingbourne, on payment of a deposit of £3 3s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, in plain envelopes endorsed "Water Mains—Fulston Manor Estate," are to be received by the undersigned not later than MONDAY, 12th June, 1961.

The Council reserve the right not to accept the lowest or any Tender.

D. ALLEN,
Clerk of the Council.

Council Offices,
76 High Street,
Sittingbourne.
18th May, 1961.

ATHERTON URBAN DISTRICT COUNCIL.

CONSTRUCTION OF ROADS AND SEWERS AT HAG FOLD NORTH AND ATHERLEIGH.

TENDERS are invited for the CONSTRUCTION of ROADS and SEWERS at the ABOVE SITES. The work includes—

Approx. 5,250 sq. yd. of Wet-mix and Bitumen Macadam Carriageways.
Approx. 1,700 lin. yd. of Kerbing.
Approx. 570 lin. yd. of 9in. dia. Combined Sewers.
Approx. 370 lin. yd. of 18in. dia. Surface Water Culvert.

Tender documents may be obtained from the Engineer and Surveyor, Town Hall, Atherton, where Plans may be seen during normal office hours. Completed Tenders should be delivered to the undersigned, in plain sealed envelopes, endorsed "Roads and Sewers—Hag Fold North and Atherleigh," not later than Noon on MONDAY, 12th June, 1961.

S. G. BLAKEBOROUGH,
Clerk of the Council.

Town Hall,
Atherton,
Manchester.

THE URBAN DISTRICT COUNCIL OF ABERDARE.

FENCING.

TENDERS are invited for RENEWING FENCES at 288 HOUSES at TREWAUN, TRENANT and TREFELIN ESTATES.

Specifications and Forms of Tender may be obtained from the Engineer and Surveyor, Vestry Hall, Aberdare.

Tenders, in plain sealed envelopes, bearing no mark or indication of the sender, but endorsed "Fencing," must reach me on or before FRIDAY, 16th June, 1961.

D. G. JAMES,
Clerk of the Council.

Town Hall,
Aberdare.
18th May, 1961.

CONTRACTS

CITY OF STOKE - ON - TRENT.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING:—

(a) Power Shovel.
(b) Trailer Transporter.
(c) Workmen's Cabin (Mobile).
(d) Vibrating Roller.

Tender Forms, Specification, etc., may be obtained from the City Engineer and Surveyor, Town Hall, Stoke-on-Trent.

Completed Tenders, in the official envelope provided, to be delivered to the undersigned not later than 12 Noon on MONDAY, 12th June, 1961.

HARRY TAYLOR,
Town Clerk.

RESIDENTIAL DEVELOPMENT, EDGBASTON. Contractors wishing to be considered for inclusion in select lists to TENDER for contracts ranging from £50,000 to £200,000 for the CONSTRUCTION of FLATS and HOUSES in EDGBASTON, are invited to submit their names to the ARTISAN GROUP OF COMPANIES, c/o 83/85 Hagley Road, Edgbaston, Birmingham, 16.

For Contracts received too late for classification see page 977

APPOINTMENTS VACANT

COUNTY BOROUGH OF GRIMSBY.

WESTERN AREA DRAINAGE SCHEME.

APPOINTMENT OF RESIDENT ENGINEER.

The Corporation invites APPLICATIONS from experienced persons for the APPOINTMENT of a TEMPORARY RESIDENT ENGINEER, required in connection with the construction of main drainage works, comprising approximately two miles of large diameter trunk sewers, together with extensions to sewage pumping station, and other appurtenant works.

The duration of the work will be approximately two years, and applicants must be experienced in carrying out extensive works of this nature.

The salary to be paid is £1,200 per annum.

Applications, together with names and addresses of two referees, to be forwarded to the undersigned not later than MONDAY, the 29th May, 1961.

J. V. OLDFIELD, M.Inst.C.E.,
Borough Engineer and Surveyor.

Municipal Offices,
Town Hall Square,
Grimsby.
May, 1961.

METROPOLITAN BOROUGH OF BETHNAL GREEN.

ROADS AND SEWERS FOREMAN REQUIRED. Salary Misc. V (£725-£800, including London Weighting).

Particulars and forms obtainable from TOWN CLERK, Town Hall, Bethnal Green, E.2, returnable by Noon, 6th JUNE, 1961.

CITY OF CARDIFF.

CORPORATION WATERWORKS.

ENGINEERING ASSISTANT—A.P.T. III (£960-£1,140 P.A.).

APPLICATIONS are invited for the ABOVE-MENTIONED PERMANENT APPOINTMENT at a salary in accordance with A.P.T. Grade III.

Consideration will be given to the provision of housing accommodation.

Applicants should have passed Parts I and II of the Institution of Civil Engineers Examinations, or equivalent, and opportunities exist for qualifying for Corporate Membership. Some waterworks experience is desirable but not essential.

Further information re Conditions of Service concerning this appointment may be obtained from the Water Engineer and Manager, Municipal Offices, Greyfriars Road, Cardiff.

Applications, together with the names of two referees, should reach the undersigned, appropriately endorsed, not later than 29th MAY, 1961.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
16th May, 1961.

EBBW VALE URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT AND ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS (TWO),
GRADES III-IV (£960-£1,310).
CHIEF ASSISTANT ENGINEER,
GRADE IV (£1,140-£1,310).
ASSISTANT ENGINEER (TEMPORARY),
GRADE IV (£1,140-£1,310).

APPLICATIONS are invited for the ABOVE APPOINTMENTS in the separate Engineer's and Architect's Departments of the Council.

For Architectural Assistants, applicants should be at least Intermediate R.I.B.A. Standard, and for Grade IV should be corporate members of the R.I.B.A. For Engineering Assistants, candidates must be corporate members of the Institution of Civil Engineers and/or Municipal Engineers, or hold equivalent qualifications. Commencing salaries within the grades according to qualifications and experience.

The Architect's Department is engaged on an interesting programme of work, including new civic centre buildings which involves the construction of an indoor swimming pool (just commencing), Municipal Offices, Council Chamber and public hall. In addition there are redevelopment and general housing schemes in course of preparation.

The Engineer's Department are carrying out several major road improvement schemes, site preparation for housing sites which involves Direct Labour and Contract Works.

Alternate Saturday mornings free. Canteen facilities. N.J.C. Conditions of Service. Local Government Superannuation Acts apply. Housing accommodation will be made available, if required. The successful candidates will be required to pass a medical examination, and the appointments are terminable by one month's notice in writing on either side.

Applications (for which no forms are issued) should be appropriately endorsed and accompanied with the usual information and giving names of two referees, must be received by the undersigned not later than Noon on WEDNESDAY, 7th June, 1961.

HOWARD J. WILLIAMS,
Clerk of the Council.

District Council Offices,
The Walk,
Ebbw Vale,
Mon.
15th May, 1961.

APPOINTMENTS VACANT

UGANDA.

WATER DEVELOPMENT DEPARTMENT.

EXECUTIVE ENGINEER.

Qualifications: Candidates (aged 27-55) should have either a University degree, or equivalent, recognised by the Institution of Civil Engineers, or be A.M.I.C.E., and have had not less than five years' post-graduate experience in water engineering.

Duties: to take charge of the Department's irrigation and reclamation programme.

Terms of Appointment: Contract for one tour of from 21-27 months (provisional) in the first instance, with 25 per cent. gratuity.

Emoluments in Scale £1,266-£2,448 p.a.

Free passages. Generous leave. Free medical attention. Taxation at local rates.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1, quoting No. BCD140/9/04/D14, your full name, age, and brief details of qualifications and experience.

COUNTY BOROUGH OF ROCHDALE.

APPLICATIONS are invited from corporate members of the R.I.B.A. for the APPOINTMENT of CHIEF ASSISTANT ARCHITECT as the head of the General Architectural Section of the Borough Engineer and Surveyor's Department. The salary will be Grade J.N.C., Scale B (£1,485-£65(1)/£60(2)/£1,670). The commencing salary will not necessarily be the minimum figure, and will be fixed according to ability and experience.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and to passing a medical examination.

Canvassing is prohibited, and applicants must disclose whether they are related to any member or senior official of the Council.

Housing accommodation may be provided by the Council in appropriate circumstances.

Applications, stating age, qualifications, training and experience, together with the names and addresses of two persons to whom reference can be made and endorsed "Chief Assistant Architect," must be delivered to the Borough Engineer and Surveyor, Town Hall, Rochdale, by 16th JUNE, 1961.

K. B. MOORE,
Town Clerk.

BOROUGH OF ENFIELD.

(Population 110,000. Area 12,400 acres.)

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING ESTABLISHED POSITIONS within the Grades shown:

(a) Engineering Assistant—A.P.T. II (£815-£960).
(b) Junior Engineering Assistants—A.P.T. I (£645-£815).

The commencing salary will be fixed at a point within the Scale commensurate with qualifications and experience.

The appropriate London Weighting allowance will be paid in addition to the above salaries.

Opportunities will be afforded to gain experience in all phases of Municipal Engineering.

Five-day week.

The Council are prepared to consider the provision of housing accommodation if required, or 100 per cent. advances to successful applicants for house purchase within the Borough, in respect of (a) above.

Details of appointments and Application Forms obtainable from H. D. PEAKE, M.Sc.(Eng.), Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Civic Centre,
Enfield.
16th May, 1961.

BOROUGH OF MARGATE.

BOROUGH ENGINEER'S DEPARTMENT.

APPLICATIONS are invited from suitably qualified candidates for the POST of PLANNING ASSISTANT in the Borough Engineer's Office, salary in accordance with A.P.T. III (£960, rising by annual increments to a maximum of £1,140 per annum).

Applicants should have had wide experience in planning matters in the office of a Local Authority.

Applications, giving details of experience and the names of two referees, and endorsed "Planning Assistant," are to be received by the Borough Engineer and Surveyor, 38 Grosvenor Place, Margate, by SATURDAY, 3rd June, 1961.

The Council will assist in the provision of housing accommodation if required, and candidates should disclose whether they are related to any member or chief officer of the Council.

T. F. SIDNELL,
Town Clerk.

Town Clerk's Office,
40 Grosvenor Place,
Margate.
16th May, 1961.

CITY OF NEW SARUM.

CITY ENGINEER'S DEPARTMENT.

CIVIL ENGINEERING INSPECTOR.

APPLICATIONS are invited for the APPOINTMENT of CIVIL ENGINEERING INSPECTOR to assist the resident engineer in the supervision of the construction of a new sewage treatment plant in Salisbury. Preference will be given to applicants with experience of large-scale concreting operations.

The appointment will be for a period of two years at a salary of £15 per week. A casual user's car allowance will be paid.

Applications, giving full details of experience, together with the names and addresses of two referees, should be sent to the City Engineer and Surveyor, The Council House, Bourne Hill, Salisbury, to be received not later than WEDNESDAY, 31st May, 1961.

GEO. RICHARDSON,
Town Clerk.

WESTMINSTER CITY COUNCIL.

CLERK OF WORKS (SEWERS)—A.P.T. I/II (£645-£960) plus £40 London Weighting. Commencing salary according to experience and qualifications.

42-hour 5-day week. Superannuation contributions 2 per cent.

Applicants must have had good practical experience in construction, reconstruction and repair of brick and pipe sewers, and be capable of supervising and measuring such work undertaken by contract. Ability to write clear, concise and accurate reports essential.

Applications, stating age, qualifications, experience, present appointment and salary, and past appointments, with names, etc., of two referees, to TOWN CLERK, City Hall, Charing Cross Road, London, W.C.2, within 10 days of appearance of advertisement.

APPOINTMENTS VACANT

JAMAICA.

PUBLIC WORKS DEPARTMENT.

SENIOR ENGINEER.

Qualifications: Candidates, preferably under 45 years of age, must be Corporate Members of the Institution of Civil Engineers, with at least 10 years' experience on civil engineering projects, of which at least three years must have been in positions of administrative and financial authority. Wide experience on drainage schemes including construction of levees and jetties, dredging, earthmoving, and the erection of steel and reinforced concrete bridges is also required.

Duties: To assist, and be responsible to, the Resident Engineer in all matters concerning the control of the Sandy Gully Drainage Project, and to act as his deputy when necessary.

Terms: On contract for three years, with gratuity of 20 per cent.

Emoluments: £2,500 p.a.

Free passages. Generous leave and allowances.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name, age, and brief details of qualifications and experience. Quote BCD112/32/027/D14.

BOROUGH OF KEIGHLEY

BOROUGH ENGINEER'S DEPARTMENT.

LOW-LEVEL OUTFALL SEWER.

RESIDENT ENGINEER.

APPLICATIONS are invited for the TEMPORARY APPOINTMENT of RESIDENT ENGINEER for the execution by contract of works comprising the construction of the outfall sewer in 45in.-51in. diameter pipes, including access chambers, storm overflows and syphon under the River Worth.

The contract is for 21 months and the salary is £1,400-£1,500 per annum, according to qualifications and experience.

Applications, endorsed "Resident Engineer," stating age, experience and qualifications, accompanied by the names of three persons to whom reference may be made, must be sent to the Borough Engineer and Surveyors Office, College Street, Keighley, not later than 10 a.m. on MONDAY, 12th June, 1961.

R. COURTENAY GIBSON,
A.M.I.C.E., M.I.Mun.E.,
Borough Engineer and Surveyor.

College Street,
Keighley.

BOROUGH OF MIDDLETON.

BOROUGH ENGINEER AND SURVEYORS DEPARTMENT.

APPLICATIONS are invited for the UNDER-MENTIONED APPOINTMENTS from persons possessing the necessary qualifications:—

(a) Land and Property Surveyor, A.P.T. Grade III/IV (£960-£1,310 per annum).
(b) School Maintenance Officer, A.P.T. Grade I/III (£645-£1,140 per annum).

Applicants for post (a) should be experienced in land transactions in connection with central area redevelopment and slum clearance, and for post (b) a sound knowledge of building construction as applied to the maintenance of schools is essential.

The appointments will be permanent, subject to one month's notice on either side, and to the Local Government Superannuation Acts.

Applications, stating age, professional qualifications, experience, and giving the names of two referees, should be delivered to the undersigned not later than Noon on WEDNESDAY, 7th June, 1961.

F. JOHNSTON,
Town Clerk.

Town Hall,
Middleton,
Near Manchester.
18th May, 1961.

URBAN DISTRICT COUNCIL OF BASILDON.

(Population 87,000; 27,000 Acres. Rapidly developing district.)

ENGINEERING ASSISTANT (Established)—within Grades A.P.T. I/II (£610-£960 p.a.).

Applicants should have completed engineer training. This position offers an excellent opportunity to gain experience with a large authority undertaking a full range of works, including delegated functions for Highways, Education, Health and Welfare.

The starting salary will be according to experience.

Housing available, or 100 per cent. mortgage for purchase of own accommodation. Removal expenses payable, subject to conditions. 5-day week.

Particulars and Forms from ENGINEER AND SURVEYOR, 88 Town Square, Basildon, Essex.

Closing 12th JUNE.

LEE CONSERVANCY CATCHMENT BOARD.

APPLICATIONS are invited for One SENIOR ENGINEERING ASSISTANT within the salary range of Grades A.P.T. II/III (£815-£1,140 p.a. plus London Weighting).

Applicants should have experience in design and/or supervision of civil engineering works of some magnitude, and preference will be given to Corporate Members of the Institution of Civil Engineers. The appointment is in connection with a programme of major works, which is expected to continue for several years, and will include heavy excavation; mass reinforced and prestressed concrete; bridges; culverts; sewers, and a variety of other work.

Travelling and subsistence allowances in force from time to time will be payable, and the successful candidate may be required to provide his own car, in which event he will be entitled to an essential user allowance.

The appointment will be subject to the National Scheme of Conditions of Service for Local Authorities' Administrative, etc., Staffs, and to one month's notice on either side; and the successful applicant may be required to pass a medical examination. Applicants should state whether they would wish to be specified as contributory employees for the purposes of the Local Government Superannuation Act, 1937, and, if so, give particulars of previous contributory and non-contributory service.

Applications, stating age, qualifications, experience, etc., accompanied by copies of not more than three recent testimonials, and endorsed "Senior Engineering Assistant," should reach N. MEDRINGTON, A.M.I.C.E., M.I.W.E., Engineer to the Board, The Grange, Cross-brook Street, Cheshunt, Herts., not later than First Post on FRIDAY, 23rd June, 1961.

J. L. SPILLER,
Clerk of the Board.

Head Office of the Board,
Brettenham House,
Lancaster Place,
Strand, London, W.C.2.

ESTIMATING CLERK for general builder. All types new work, alterations, etc. Permanent and progressive post.—ERIC M. TAYLOR, LTD., High Street, Ongar, Essex.

APPOINTMENTS VACANT

ESTIMATOR REQUIRED with civil engineering contractors in the London area. Applicants must have had some site experience. Excellent opportunities for suitable applicant.—Write Box V.4133, "The Contract Journal."

ENGINEER / AGENT REQUIRED for immediate appointment. To take charge of contract in Staffordshire.—Write, stating age, experience, and salary required, to Box V.4131, "The Contract Journal."

ESTIMATOR REQUIRED. Applications are invited from men who are fully experienced in estimating for all types of civil enginering and building works. Pension scheme in operation. — Apply in writing, stating age, full particulars of experience, previous employers, salary expected, and when free to commence, to Chief Estimator, CURRALL, LEWIS AND MARTIN, LTD., 11 Booth Street, Birmingham, 21.

D. T. BULLOCK AND CO., LTD.

Seek to appoint an AGENT/ENGINEER. This progressive firm of contractors with a sound record of expansion requires an enthusiastic and able man to take charge of small and medium-sized civil engineering and building contracts in the Midlands. The successful applicant will (a) be aged 30-35, and will already be accustomed to taking considerable responsibility; (b) preferably have degree, Higher National and/or A.M.I.C.E., A.M.I.Struct.E.; (c) be based on Aldridge. Transport will be provided or mileage allowance in lieu. The salary will be good and prospects excellent. Although a pension scheme is in force, we are not looking for a man to whom this is a prime consideration. — Apply, in confidence, to:

Managing Director,
D. T. BULLOCK AND CO., LTD.,
Aldridge, Staffs.

WORKS MANAGER/ENGINEER REQUIRED to take charge of main plant and vehicle repair shops. Good organising ability, effective control of labour, and wide experience of all types vehicles, tractors, excavators and general civil engineering plant are essential qualifications.—Write, with details of age, experience, salary required, and full particulars of previous appointments in similar capacity, to F. M. SPARROW (PLANT), LTD., Oakley, Bedford.

ENGINEER/AGENT REQUIRED for civil engineering contract, London area. Progressive appointment: full responsibility accorded to experienced tunnel man with good knowledge of piling and open-cut work. Write details of age, qualifications and experience, etc., to Box V.4195, "The Contract Journal."

CONSULTING ENGINEERS REQUIRE experienced RESIDENT ENGINEER to supervise a main drainage contract in the Derby area. Approx. duration of appointment 12 months, with prospect of continuity. Applicants must be competent surveyors and must have had at least seven years' experience in site supervision under the direction of Consulting Engineers or Local Authorities. Inclusive salary and subsistence in the range £1,200 to £1,500 p.a., according to experience.—Applications, stating full details of age, experience, etc., to SIR HERBERT HUMPHRIES AND McDONALD, Park Chambers, 276 Monument Road, Edgbaston, Birmingham, 16.

CARPENTERS

SIR LINDSAY PARKINSON AND CO. REQUIRE SHUTTERING CARPENTERS for their Great Ouse contract in Norfolk. This contract is for a period of three years. Subsistence allowance payable in accordance with W.R.A.—Apply, in writing or in person, to:

The Agent,
LINDSAY PARKINSON AND CO.,
Great Ouse Contract.
Stoke Ferry, King's Lynn, Norfolk.
Telephone: Stoke Ferry 389.

ASSISTANT CIVIL ENGINEERS REQUIRED immediately for setting-out on important roadworks and large r.c. bridges, S.E. London. Permanent, pensionable positions for suitable candidates.—Write, giving particulars, to Box V.4202, "The Contract Journal."

SENIOR and JUNIOR SURVEYORS REQUIRED for Aldermaston and Harwell. Long-term contracts. Apply, stating age, experience, salary required, and when available, to Secretary, W. E. CHIVERS AND SONS, LTD., Devizes, Wilts. Tel.: Devizes 121.

FIRST-CLASS AGENT REQUIRED, with wide experience in reinforced concrete and civil engineering work. Top salary for the right man.—Write, stating age, experience, salary required, with copies of references, to Building Contracts Manager, H. C. JANES, LTD., 183 High Town Road, Luton.

EXPERIENCED SITE ENGINEER REQUIRED by civil engineering contractors, for roadworks, main drainage and sewage disposal contracts, Southern Counties. The position is permanent, with pension scheme, carrying a substantial salary, and offers exceptional prospects of advancement to higher grades in an expanding organisation.—Write in confidence, stating age, full details of experience, and past employers, together with salary required, to Box V.4152, "The Contract Journal."

FOREMEN

TROLLOPE AND COLLS, LTD., have vacancies in their reinforced concrete department for experienced FOREMEN. Permanent posts are offered to the right men, with good salaries and considerable future prospects.—Applications, giving fullest particulars of past experience, should be addressed to:

The Assistant Secretary,
TROLLOPE AND COLLS. LTD.,
1 Noble Street, Gresham Street, London. E.C.2.

PLANT SALESMAN REQUIRED for firm specialising in the sale, at home and abroad, of all types of earthmoving equipment and contractors' plant. Ideal opportunity for capable, ambitious man with good connections to secure well-paid, progressive, permanent situation with plenty of scope. All replies treated in strictest confidence.—Write to Mr. R. R. Clay, A.R.C. MOTOR CO., LTD., Redhill Works, Arnold, Nottingham.

ARCHITECTURAL ASSISTANTS (Intermediate Standard) REQUIRED for work on industrial and church projects. Must be capable of taking responsibility. Good working conditions and excellent prospects for suitable applicant in expanding department. Please apply, with full details, to Personnel Officer, M. J. GLEESON (CONTRACTORS), LTD., Haredon House, London Road, North Cheam, Surrey. Ref. 008.

APPOINTMENTS VACANT

CIVIL ENGINEERING contractors REQUIRE ASSISTANT CONTRACTS SUPERVISOR, to be based on Rickmansworth area.—Full details of experience to CAFFIN AND CO., Maple Cross, Rickmansworth.

SENIOR QUANTITY SURVEYOR REQUIRED by well-known medium Manchester building and civil engineering contractors. Estimating knowledge useful but not essential. Age 30-50. Applicants should be capable of dealing with contracts from £20,000 to £400,000. Responsible only to Managing Director. Man already acting as Surveyor/Contracts Manager preferred. Assistance with housing if desired. Salary £1,250-£1,500 plus bonus. — Write full details in confidence to Box V.4163, "The Contract Journal."

GENERAL FOREMAN—Severn Bridge. Applications are invited for the position of General Foreman on this contract. Applicants must have experience in heavy marine foundation construction, and have held a similar position previously. Sound knowledge of cofferdam work is essential. Some knowledge of caisson work desirable.—Apply in writing, giving details of past experience, to JOHN HOWARD AND CO., LTD., Severn Suspension Bridge, Beachley, Chepstow, Monmouthshire.

TROLLOPE AND COLLS, LTD.

Invite applications for BONUS SURVEYORS fully experienced in the measurement and preparation of bonus and cost returns. — Applications, giving full particulars of qualifications, experience and salary required, should be sent to:

The Assistant Secretary,
TROLLOPE AND COLLS. LTD.,
1 Noble Street, Gresham Street, London, E.C.2.

COST AND BONUS CLERKS REQUIRED for civil engineering contracts in all areas. R.C. experience necessary: measuring an advantage.—Apply, with full details, to Personnel Officer, M. J. GLEESON (CONTRACTORS), LTD., Haredon House, London Road, North Cheam, Surrey. (Ref. 008.)

SITE ENGINEERS, preferably qualified, REQUIRED for civil engineering projects in all areas.—Send full details to Personnel Officer, M. J. GLEESON (CONTRACTORS), LTD., Haredon House, London Rd., North Cheam, Surrey. (Ref. 006.)

PLANNING ASSISTANT REQUIRED for head office of civil engineering contractors engaged on roadworks, main drainage and sewage disposal and water supply contracts. Duties will include contract planning, taking-off materials, preparation of working details, and design of temporary works. Applicants should have good basic civil engineering training and at least three years' site experience. Permanent post, with prospects, pension scheme.—Write, stating age, salary, and details of training and experience, to Box V.4151, "The Contract Journal."

LARGE overseas civil engineering project REQUIRES SENIOR OFFICE ASSISTANT experienced in all contract office duties, and STOREKEEPER with specialised experience of plant and plant spares. Please give full particulars of career, previous employers, age, and whether married or single.—Write Box V.4179, "The Contract Journal."

TROLLOPE AND COLLS, LTD.

REQUIRE the services of experienced QUANTITY SURVEYORS for large building contracts in the London area. Must have sound knowledge of site measuring, valuations, final account preparation, etc. — Apply, stating age, experience and salary required, to:

The Assistant Secretary (Ref. S.),
TROLLOPE AND COLLS. LTD.,
1 Noble Street, Gresham Street, London, E.C.2.

GANGERS REQUIRED for West Midlands area. Top rates paid.—Apply C. J. PEARCE AND CO., LTD., Public Works Contractors, Southall, Dawley, near Wellington, Shropshire.

SENIOR QUANTITY SURVEYOR REQUIRED for head office appointment in the Midlands. First-class prospects. Permanent employment. Bonus and pension schemes.—Apply ROBERT McGREGOR AND SONS, LTD., Midlands Office, Turnoaks Lane, Chesterfield.

MASSEY - FERGUSON Industrial Distributors REQUIRE a SALES REPRESENTATIVE based in the Reading area. Previous experience with Industrial Tractors or allied equipment absolutely necessary. TRACTORS AND FARMAIDS, LTD., Stratton Road, Swindon, Wilts.

GENERAL MANAGER REQUIRED for the plant company of a rapidly expanding development and contracting group. Duties will consist of reorganisation and expansion of plant department for construction company, also development of plant hire business. Only men with proven record of success in similar positions need apply. Excellent salary and conditions, including non-contributory pension scheme. All applications will be dealt with in confidence by Managing Director personally. — Write, giving full details of experience and qualifications to Box V.4172, "The Contract Journal."

CUBITTS

HOLLAND & HANNEN AND CUBITTS (G.B.), LTD., have vacancies available.

SEE PAGES 962 and 963.

QUALIFIED CIVIL ENGINEER REQUIRED by contractors specialising in reinforced concrete work. Excellent opportunity for permanent, progressive position.—Apply in writing, stating age, qualifications, experience, and salary required, to SHELLABEAR PRICE CONTRACTORS, LTD., Auckland House, New Zealand Avenue, Walton-on-Thames, Surrey.

PLANNING ENGINEER REQUIRED for head office appointment in the Midlands. First-class prospects. Permanent employment. Bonus and pension schemes.—Apply ROBERT McGREGOR AND SONS, LTD., Midlands Office, Turnoaks Lane, Chesterfield.

YOUNG ENGINEER REQUIRED for civil engineering contracts in Bedfordshire area. Preference given to applicant with previous experience on earthmoving and general road construction.—Apply, stating qualifications, age, experience, and salary required, to F. M. SPARROW (CONTRACTORS), LTD., Oakley, Bedford.

VAL DE TRAVERS ASPHALTE, LTD., invite applications for the post of London ROADS MANAGER. Confidential submissions should give details of experience, qualifications, etc., and are to be in writing, addressed to the Managing Director, 21-22 Old Bailey, E.C.4.

APPOINTMENTS VACANT

AGENTS and GENERAL FOREMEN REQUIRED for civil engineering and R.C. contracts in South Wales and Midlands. Permanent appointments and good prospects to men of experience and initiative. Applications to Personnel Officer, M. J. GLEESON (CONTRACTORS), LTD., Haredon House, London Road, North Cheam, Surrey. (Ref. 007.)

NIGERIA. — ASSISTANT CIVIL ENGINEER REQUIRED for road and general civil engineering contracts in Nigeria. Three or four years' site experience and ability to set-out and measure earthworks essential.—Apply in writing, giving full particulars, to the General Manager, Civil Engineering Department, SIR LINDSAY PARKINSON AND CO., LTD., 6 Lambeth Road, London, S.E.1.

YOUNG MAN REQUIRED urgently, 20-25 years. ESTIMATOR/SURVEYOR, wall and floor tiling sub-contract department. Also MALE JUNIOR CLERK REQUIRED. Excellent prospects. Superannuation scheme.—Write Manager, HALL AND CO., LTD., Great West Road, Brentford, Middlesex.

CONTRACT SUPERVISOR

REQUIRED by piling specialists. Should be prepared to travel in British Isles; car provided. Superannuation scheme. Good prospects for right man. — Apply:

JOHN GILL (CONTRACTORS), LTD.,
123 Pall Mall, London, S.W.1.

SENIOR LAYOUT AND SURVEYING ASSISTANT REQUIRED for estates development, which includes shop and flat schemes throughout the country. Applicant should be competent draughtsman with considerable experience in design of layouts. Interesting work, with good prospects. Salary £1,000 p.a. (minimum). Car allowance or use of office car. Holidays honoured. Address replies to the Manager, P.S. and A. Dept., DAVIS ESTATES, LTD., 364/350 Kilburn High Road, N.W.6.

GENERAL FOREMAN REQUIRED. Good prospects; superannuation. Transport provided. Must be experienced in reinforced concrete and building work. Please apply in writing, stating age, experience, and salary required, to J. L. EVE CONSTRUCTION CO., 17 Hillside, Ridgway, Wimbledon, S.W.19.

JUNIOR ENGINEER with good soil mechanics experience REQUIRED by firm of civil engineering contractors in East Africa, for extensive new road construction programme. Good salary and prospects. Please write, stating full details of past experience, to Box V.4181, "The Contract Journal."

THOMAS LOWE AND SONS, LTD., have vacancies for GENERAL FOREMEN to take charge of contracts in the Birmingham area up to a value of £200,000. Must be experienced and conversant with modern methods, including planning and progressing. Staff pension scheme available after satisfactory probationary period.—Applications should be, in the first place, in writing to Gazette Buildings, Corporation Street, Birmingham, 4, stating age, qualifications, and salary required.

AGENTS and SUB-AGENTS

A large civil engineering contracting company invite applications from experienced and qualified ENGINEERS for the above positions on a large contract in the Midlands. It is essential that applicants should have a proved record of successful large-scale contract operation. Generous salary, allowances, etc., for the right men. Superannuation scheme.—Applications, in writing, giving full particulars, in confidence, to:

BOX C.J.495, L.P.E.,
60/62 St. Martin's Lane, London, W.C.2.

SITE CASHIER, fully experienced W.R.A. wages, etc., REQUIRED for civil engineering contractors, Lancashire. Good prospects and permanent position. Written applications, stating full particulars, to Box V.4140, "The Contract Journal."

MEARS BROS. (CONTRACTORS), LTD., Head Office, 154 Sydenham Road, S.E.26, REQUIRE JUNIOR ENGINEERS with some experience, for site work in Southern Area. Ability to use instruments essential. — Apply Personnel Manager at above address.

CONTRACT SUPERVISOR REQUIRED by piling specialists. Should be prepared to travel in British Isles; car provided. Superannuation scheme. Good prospects for right man.—Apply JOHN GILL (CONTRACTORS), LTD., 123 Pall Mall, London, S.W.1.

SENIOR ENGINEER/AGENT REQUIRED to take charge of small and medium-size contracts in an area Sussex/Hants. Experience in control of several contracts collectably is the minimum experience required. Generous salary, car and pension scheme, and considerable scope for advancement in expanding organisation.—Write, giving full details of experience, age, and salary required, to Box V.4153, "The Contract Journal."

CIVIL ENGINEERS

For overseas contract. — ASSISTANT and SENIOR CIVIL ENGINEERS REQUIRED for large civil engineering contract overseas. Sound experience with contractors, either at home or abroad, is an indispensable qualification. Applications should state experience in full, with names of previous employers, age, qualifications, and whether married. Excellent opportunities for the right men, especially in the senior position.

WRITE BOX V.4154, "THE CONTRACT JOURNAL."

THOMAS LOWE AND SONS, LTD., have a vacancy for a BUILDING SURVEYOR in their Birmingham office. Must be capable of dealing with interim certificates, bonusing, final accounts, etc., on contracts up to £200,000. Car mileage allowance given, also assistance, if necessary, in obtaining accommodation. Staff pension scheme available after satisfactory probationary period.—Applications should be, in the first place, in writing to Gazette Buildings, Corporation Street, Birmingham, 4, stating age, qualifications, and salary required.

SITE CASHIER.—Applications invited for the above position for vacancy in Midlands area. The position is one of much responsibility and calls for a fully experienced man previously holding similar position with national contractor on large contracts, and has been covered by fidelity insurance. Must be reasonably mobile. Good terms and conditions offered to suitable man. Age range about 28 to 46 years.—Apply in confidence to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

APPOINTMENTS VACANT

SITE ENGINEERS/SURVEYORS REQUIRED by civil engineering contractors based in Hull. Experienced setting-out, measuring, valuations and final accounts, and able to work with minimum supervision. Pension and life assurance scheme. Excellent prospects.—Write, giving full details in strictest confidence, to Box V.4139, "The Contract Journal."

WANTED Immediately, ENGINEER/AGENT for sewage disposal works contract in London. Good prospects. Superannuation scheme. Car provided. Please write, stating age, experience, and salary required, to J. L. EVE CONSTRUCTION CO., LTD., 17 Hillside, Ridgway, Wimbledon, S.W.19.

THE LONDON FERRO-CONCRETE CO., LTD.

REQUIRE a SENIOR ESTIMATOR experienced in tendering for building and civil engineering work. Pension scheme. Possible assistance with housing. Apply, giving full details, age, experience and salary required, to:

Chief Estimator,
THE LONDON FERRO-CONCRETE CO., LTD.,
Maxted Close, Hemel Hempstead, Herts.
Telephone: Boxmoor 3810.

BUYER REQUIRED for medium-sized contractors in Shropshire area. Must be capable of taking-off own quantities from drawings and specifications. Write details of experience, and salary required, to Box V.4188, "The Contract Journal."

VAL DE TRAVERS ASPHALTE, LTD., REQUIRE experienced ROLLED ASPHALT AND TAR-PAVING ESTIMATOR for their Midland office. Applications, which will be dealt with in strictest confidence, should be sent to Roads Manager, 5 Lower Temple Street, Birmingham, 2.

CIVIL ENGINEER for head office duties. Old-established civil engineering contractors REQUIRE the services of a qualified Civil Engineer for their London head office. The successful applicant, who will be working as an Assistant to the directors, will be mainly engaged on the design of temporary works, assisting with estimates, the development of new methods, and the progressing of contracts. Applicants should be aged between 30 and 45, and have both design and site experience. Mechanical experience and experience of tunnelling work will be an advantage. A pension scheme is in operation after a qualifying period.—Applications, which will be treated as confidential, giving full details of experience, and an indication of salary required, should be forwarded to Box V.4184, "The Contract Journal."

PRECAST CONCRETE ESTIMATING

DOW-MAC (PRODUCTS), LTD., REQUIRE ESTIMATORS and ESTIMATING ASSISTANTS for precast and prestressed concrete work, with some years' experience of the industry. Progressive positions in large company manufacturing a wide variety of products. Good salaries based on experience and ability. Removal and settling-in expenses.—Applications, in writing, to:

Technical Director,
DOW-MAC (PRODUCTS), LTD.,
Tallington, Stamford, Lincs.

CONTRACTORS' Plant and Transport. OFFICE MANAGER, about 30/40, to deal with plant inquiries, vehicle movements, purchasing, stock records, control of small office staff. Able to produce simple statistical information. Kingston, Surrey. Salary about £1,000; pension.—Please write in strict confidence to Box V.4180, "The Contract Journal."

SENIOR AGENT REQUIRED. Must have extensive experience in sewage disposal works. This is a permanent position, with opportunities for advancement. Assistance with housing if required.—Apply WM. EAVES AND CO., LTD., Vicarage Lane, Blackpool.

QUANTITY SURVEYOR REQUIRED for civil engineering contracts, in the London area.—Please write in confidence, giving full details of experience, etc., to MESSRS. THOMAS FLETCHER AND CO., LTD., Amhurst Terrace, Amhurst Road, Hackney, London, E.8.

CIVIL ENGINEERING CONTRACTS MANAGER WANTED to manage series of contracts £1,000 to £100,000, Birmingham area. Must be fully conversant with all trades and all jobs from initial to final account. Good salary and conditions offered, and permanency. — Write Box V.4197, "The Contract Journal."

SENIOR AGENTS

REQUIRED for THE LAING HOUSING CO., LTD. Applicants should be capable of supervising groups of housing estates, including roads and sewers, or alternatively single large-scale projects. These vacancies offer excellent prospects of rapid advancement in an expanding organisation to men with wide knowledge and experience of the building trade, and the ability to appreciate good craftsmanship. Posts are permanent and pensionable.—Apply, stating age, experience and qualifications (in strict confidence), to:

Group Personnel Manager (JB3),
JOHN LAING AND SON, LTD.,
London, N.W.7.

FOREMAN REQUIRED for sewers and roadworks within 60-mile radius of Northampton. Permanent position, with good prospects and advancement. Write, giving details of experience, and salary required, to KIMBELL CONSTRUCTION, LTD., Boughton, near Northampton.

CIVIL ENGINEERING INSPECTOR REQUIRED by consulting engineers for major roadworks Chiswick-Brentford area. General public works experience, especially roadworks.—Please write experience and previous employers to Box V.4196, "The Contract Journal."

SITE ENGINEER REQUIRED by civil engineering contractors, for mains drainage contract, North-West Area. Permanent position for suitable applicant, with good prospects of advancement. — Write full details of experience, etc., in confidence, to Box V.4211, "The Contract Journal."

ENGINEER/AGENT, preferably qualified, with at least five years' site experience on contracts of £100,000 and over, REQUIRED by civil engineering department of CONCRETE PILING, LTD., for sewage disposal work contract.—Please send details to 10 Westminster Palace Gardens, Artillery Row, Victoria Street, London, S.W.1.

APPOINTMENTS VACANT

FOREMAN FITTER REQUIRED. Used to all types of contractors' plant and able to take charge of, and organise, labour.—Apply in writing, stating age, experience, etc., to MACTRAC (ENG.), LTD., Vineyard Street, Oldham.

PLANT MANAGER REQUIRED by civil engineering contractors, North Manchester. Only men experienced in: (a) repair and maintenance of all types of contractors' plant, (b) control of labour, (c) shop supervision, should apply. Man of ability at present employed as Foreman Fitter, but seeking advancement, will be considered.—Write, with full details, to Box V.4210, "The Contract Journal."

GENERAL FOREMAN. Thoroughly experienced man REQUIRED for heavy civil engineering contracts in London and Home Counties. Excellent conditions offered, with prospect of permanent post in this area. Write Box V.4207, "The Contract Journal."

SITE ENGINEER/AGENT REQUIRED, Brighton/Hove area, for road and sewer work. Good salary and subsistence allowance.—Write Box V.4173, "The Contract Journal."

WANTED for Northern Ireland, SITE ENGINEERS to work on a major dam. Must be accurate and quick in setting-out and measurement, and interested in future prospects.
Write Box V. 4171, "The Contract Journal."

QUANTITY SURVEYORS REQUIRED for building and civil engineering contracts in East Anglia. Permanent positions, with good prospects and entry into pension scheme after probationary period.—Write Box V.4174, "The Contract Journal."

WIMPEY

OPPORTUNITIES IN ASPHALT DEPARTMENT. ASSISTANT and TRAINEE ESTIMATORS are REQUIRED for asphalt and macadam surfacing. Assistant Estimators (aged 20/25) should have some knowledge of the trade. Trainees (aged 17/22) should have obtained a good G.C.E. standard of education. Opportunities will occur for transfer to outside supervisory work and for promotion in the estimating department of an expanding organisation.—Written applications only, please, to:

C. A. Burbridge,
WIMPEY ASPHALT,
20 Eastbourne Terrace, Paddington, London, W.2.

APPOINTMENT of SURVEYOR/ESTIMATOR. Owing to expanding business, a vacancy occurs for an experienced Surveyor/Estimator whose duties also consist of supervision of contracts for sportsgrounds and similar specialist work. Good salary offered. Good prospects and permanent, pensionable position for suitable applicant.—Applications, with references, to EN-TOUT-CAS CO., LTD., Syston, near Leicester.

INDUSTRIAL BUILDING SERVICES (NORTHERN), LTD. (Members of the Henry Boot Group of Companies), REQUIRE SURVEYOR ESTIMATORS as Assistants at head office. Knowledge of civil engineering and building procedure in analysis, cost and build-up, and application of rates. Permanent position, pension scheme and profit-sharing scheme in operation. Apply for application form, quoting Ref. SE/CJ, to Director, Henry Boot and Sons (Civil Engineering), Ltd., Banner Cross Hall, Sheffield, 11.

NIGERIA.—BUILDING GENERAL FOREMAN REQUIRED for Nigeria. Must be able to produce first-quality work. Previous overseas experience essential.—Applications in writing, giving full particulars, to General Manager, Civil Engineering Department, SIR LINDSAY PARKINSON AND CO., LTD., 6 Lambeth Road, London, S.E.1.

THE LYON GROUP REQUIRE AREA SUPERVISORS, capable of taking complete charge of a group of industrial, commercial and residential developments and contracts, including multi-storey structures in reinforced concrete. These positions will be well paid and offer great opportunities of advancement with an expanding group for determined and capable men. Apply Managing Director, RONALD LYON CONSTRUCTION, LTD., Auckland House, New Zealand Avenue, Walton-on-Thames, Surrey.

THE NORWEST CONSTRUCTION CO., LTD.

REQUIRES an additional ENGINEER for the company's mainlaying division. The appointment is at head office and will be concerned with the organisation of mainlaying contracts for gas and water authorities throughout the country. This will entail some visiting and short stays on contract sites. Applicants should have had at least three years' practical experience on sites in a position of responsibility, and be familiar with the laying and testing of spun-iron, asbestos and welded steel mains. Some design experience would be advantageous. A permanent position is intended and a superannuation scheme is in operation. Applications, in writing, to:

THE NORWEST CONSTRUCTION CO., LTD.,
Ruthven Road, Litherland, Liverpool, 21.

AUSTRALIA.—JUNIOR ENGINEERS REQUIRED by British company, for civil engineering works in Australia. Assistance with passage will be given. Good salaries will be paid to competent men. Interviews will be arranged in London, but applicants should send all relevant details, by air mail, in the first instance, to K. T. Conway, DAVIS CONTRACTORS PTY., LTD., 82a Oxford Street, Sydney, N.S.W., Australia.

GENERAL FOREMAN REQUIRED for waterworks construction in Staffordshire. Must be experienced in reinforced concrete. Carpenters by trade preferred. Permanent employment and good prospects.—Write Box CJ516 L.P.E., 60/62 St. Martin's Lane, London, W.C.2.

ASSISTANT ENGINEER REQUIRED for road and general civil engineering works in Staffordshire. Permanent employment and good prospects for keen young man.—Write Box CJ517 L.P.E., 60/62 St. Martin's Lane, London, W.C.2.

BUYING ASSISTANT REQUIRED aged 18/20. Experience of B.O.Q.s essential, and of buying or quantity surveying preferable. Excellent opportunity. Apply by letter to Chief Buyer, HOWARD FARROW, LTD., Highfield Road, Golders Green Road, N.W.11.

A NUMBER of experienced CIVIL ENGINEERS are REQUIRED for various types of contracts, mainly in the Northern Counties. Applicants will be given every opportunity for advancement to a number of senior positions which are at the moment vacant in the company, which is rapidly expanding and holds exceptional opportunities for conscientious and ambitious staff. Salary according to experience, and other additional benefits. — Write to Box V.4225, "The Contract Journal."

APPOINTMENTS VACANT

PERSONAL ASSISTANT REQUIRED by Managing Director of FITZPATRICK AND NICHOLSON, LTD., 455 Old Ford Road, London, E.3. Telephone: Advance 2991.—Unlimited opportunities for ambitious and able young man, 20/30, in this recently formed building division of Fitzpatrick and Son (Contractors), Ltd. Salary according to ability.

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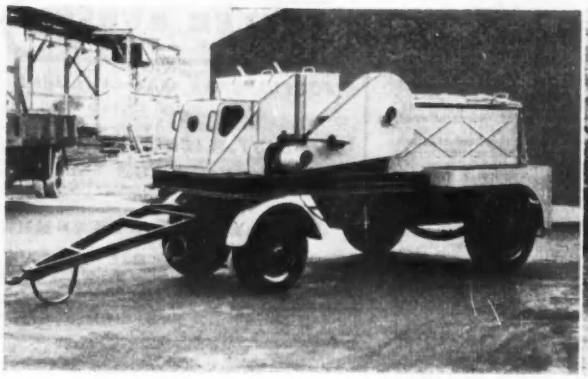

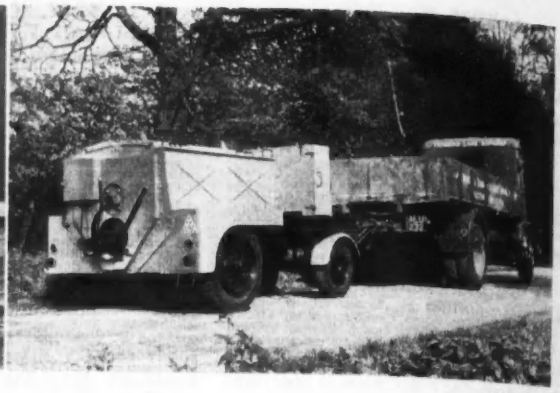

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Wilmslow Plant Hire Co., Ltd. 1018
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Advertisements received too late for Classification

COUNTY BOROUGH OF DONCASTER.

PROPOSED REINFORCED CONCRETE RETAINING WALL—FRENCHGATE.

TENDERS are invited for the CONSTRUCTION of the ABOVE REINFORCED CONCRETE RETAINING WALL. The Wall will be approx. 80 lin. yd. long and vary from 17ft. to 22ft. in height (the approx. amount of concrete in the wall is 10,000 cu. ft.).

The Plans may be inspected during normal office hours at the Offices of the Borough Engineer in Pells Close, Doncaster. Copies of the Specification, Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer, 2 Priory Place, Doncaster, upon payment of £3 3s., this deposit being returnable upon the receipt of a bona-fide Tender.

Sealed Tenders, endorsed "Frenchgate Retaining Wall," to be delivered to the undersigned not later than 10 a.m. on MONDAY, 19th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

H. R. WORMALD,
Town Clerk.

BILLINGHAM URBAN DISTRICT COUNCIL.

TOWN CENTRE DEVELOPMENT.

UNDERGROUND PUBLIC CONVENIENCES.

FIXED-PRICE TENDERS are invited from experienced public works contractors for the CONSTRUCTION of a SUITE of UNDERGROUND PUBLIC CONVENIENCES at TOWN SQUARE, Billingham.

The Building will consist of Separate Suites for Men and Women, with a Common Central Duct to house the Bulk of the Plumbing, an Elector House, and a short length of Rising Main, and will be built in Brick, with Asphalt Tanking. The Contract will include for all Excavation, Brickwork, Roof and Finishes, and for all specialist sub-contractor's work.

General Conditions of Contract and Drawings may be inspected, and Specifications, Bills of Quantities and Forms of Tender obtained from EDWIN SHAW, B.Sc.(Tech.),Hons., A.M.I.C.E., A.M.C.T., Engineer and Surveyor, at the address given below.

Plans may be inspected and documents obtained on or after 1st June, 1961, and Tenders, in plain sealed envelopes endorsed "Tender for Public Conveniences," must be received by the undersigned not later than Noon on WEDNESDAY, 28th June, 1961.

FRED. M. DAWSON,
Clerk of the Council.

Council Offices,
Haverton Hill,
Billingham,
Co. Durham.

ORPINGTON URBAN DISTRICT COUNCIL.

GARAGE ACCOMMODATION.

TENDERS are invited for the SUPPLY, DELIVERY and ERECTION ON PREPARED FOUNDATIONS of a GARAGE, either Steel-framed or alternative form of construction. The size shall be 90ft. x 50ft. (or thereabouts), with a minimum height clearance of 15ft.

The tenderer shall submit his own design for the garage in accordance with the Engineer's Specification which, together with the General Conditions of Contract and Form of Tender, may be obtained from me.

Tenders, in the envelope provided, must be delivered to the Clerk of the Council, Council Offices, Crofton Road, Orpington, not later than 9 a.m. on FRIDAY, the 16th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

L. W. FREEMAN,
Engineer and Surveyor.

Civic Offices,
The Walnuts,
High Street,
Orpington, Kent.
18th May, 1961.

ALFORD URBAN DISTRICT COUNCIL.

SEWAGE DISPOSAL WORKS—ALFORD.

TENDERS are invited for the CONSTRUCTION of an additional FILTER BED at the ABOVE WORKS.

Plans, Specifications, etc., and Form of Tender may be obtained from T. T. BOARDMAN, Esq., Surveyor, Council Offices, Alford, Lincs.

Tenders, in plain sealed envelopes, endorsed "Sewage Works—Filter Bed," must be delivered to the undersigned not later than 12 Noon on FRIDAY, the 16th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

N. GODFREY,
Clerk of the Council.

Council Offices,
Alford, Lincs.
16th May, 1961.

HIGHWORTH RURAL DISTRICT COUNCIL.

RESEWERING OF GROVE HILL, HIGHWORTH.

TENDERS are invited for the CONSTRUCTION of approx. 120 lin. yd. of 21in. dia. and 550 lin. yd. of 15in. dia. CONCRETE TUBE SEWERS laid mainly in Carriageway, together with 10 Manholes, and incidental works, for the ABOVE SEWERAGE SCHEME.

Will contractors who wish to tender for this work please submit their names and addresses to the Engineer and Surveyor, 17 Bath Road, Swindon, not later than 31st MAY, 1961, together with a deposit of Two Guineas which will be returned on receipt of a bona-fide Tender.

The relevant documents will be forwarded as soon thereafter as possible, together with directions for tendering.

The Council does not bind itself to accept the lowest or any Tender.

W. S. G. MILLS,
Clerk of the Council.

Council Offices,
Bath Road,
Swindon.

KENT COUNTY COUNCIL.

SUPPLY OF GRASS SEED.

Applications are invited from firms who wish to be considered for inclusion on the list of contractors who will shortly be asked to submit TENDERS for the SUPPLY of GRASS SEED. Applicants should be in a position to supply in early July and mix to specified formulæ approx. six tons of seed for use on school playing fields. Applications by 8th JUNE, 1961, to the COUNTY ESTATES OFFICER, Springfield, Maidstone.

BOROUGH OF WORKINGTON.

CLASS "A" STREET LIGHTING.

TENDERS are invited from competent contractors for the ERECTION, complete with ancillary Works, of 62 CLASS "A" CONCRETE COLUMNS, with Sodium Discharge Lanterns.

Specification, Form of Tender and Bill of Quantities can be obtained on application, in writing, to the Borough Engineer and Surveyor, Stoneleigh, Park End Road, Workington.

Tenders, in plain sealed envelopes endorsed "Class 'A' Street Lighting," must be delivered to the undersigned not later than 12 o'clock (Noon) on THURSDAY, 15th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

G. McKAY PORTER,
Town Clerk.

Town Hall,
Workington.
25th May, 1961.

CITY OF PLYMOUTH.

TENDERS are invited for the SUPPLY of Two Diesel driven PUMPING SETS, each capable of lifting 1,500 g.p.m. of water against a head of 100ft.

Particulars from the WATER ENGINEER, 22 Portland Square, Plymouth. Closing date, 6th JUNE, 1961.

CITY OF SHEFFIELD.

TENDERS are invited for the UNDERMENTIONED SUPPLIES to all Departments of the Sheffield Corporation, from 1st July, 1961, viz.:

Groceries, Meat, Tea, Coffee, Bread, Flour, Provisions, Bacon, Milk, Chamois Leathers and Sponges, Ironmongery and Hardware.

The necessary Forms of Tender may be obtained on application to the Town Clerk, Town Hall, Sheffield, to whom completed Forms of Tender must be delivered not later than 10 a.m. on FRIDAY, 9th June, 1961.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield.
25th May, 1961.

CHIGWELL URBAN DISTRICT COUNCIL.

TRAPS HILL—PROPOSED CAR PARK.

Tenderers are invited to submit their names, together with a deposit of £2 2s. (returnable after submission of bona-fide Tender not afterwards withdrawn), for the CONSTRUCTION of approx. 3,400 sq. yd. of 5in. CONCRETE SLAB, together with Drainage and ancillary work, to the ENGINEER AND SURVEYOR, Council Offices, Old Station Road, Loughton, Essex. Contract will be fixed-price, providing for fair wages clause and bond, but the Council does not bind itself to accept the lowest or any Tender.

RICHMOND RURAL DISTRICT COUNCIL.

TUNSTALL SEWERAGE.

TENDERS on a Fixed-price Basis are invited for the FOLLOWING WORKS:

CONTRACT NO. 1—The Construction of approx. 1,900yd. 6in. dia. Earthenware Sewer, Elector Station, and approx. 90yd. of 4in. dia. Spun-iron Rising Main, and a Disposal Works comprising Settlement Tanks, Percolating Filter, Humus Tanks and Sludge Drying Beds.

CONTRACT NO. 2—The Supply and Erection of a duplicate set of 18 g.p.m. Compressed Air Ejectors.

Documents may be obtained from the Council's Engineer and Surveyor on payment of £2 which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, or the return of all documents.

Tenders, in the envelopes provided, shall be delivered to the undersigned not later than Noon on the 19th JUNE, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

E. H. HODGE,
Clerk of the Council.

Richmond R.D.C.,
Swale House,
Richmond,
Yorks.

BONUS SURVEYOR REQUIRED to operate incentive bonus scheme from head office.—Apply THE LONDON FERRO-CONCRETE CO., LTD., Maxted Close, Hemel Hempstead, Herts. Boxmoor 3810.

OFFICE MANAGER REQUIRED for a rapidly expanding plant company, North-West Middlesex area. Must be experienced in plant hire.—Write, stating age, previous experience, and salary required, to Box V.4221, "The Contract Journal."

ASSISTANT ENGINEER.—An outstanding opportunity for an ambitious young Engineer to join national building company who have recently opened new offices at Hemel Hempstead and are expanding their housing department. Preference will be given to applicants who are A.M.I.C.E., or hold the Testamur of the I.Mun.E.—Write, stating age, experience, and salary required, to Box V.4220, "The Contract Journal."

KEEN and energetic CARPENTER/FOREMAN REQUIRED for shuttering work and to train as Site Foreman for specialists in reinforced concrete structures. — Write to Box V.4218, "The Contract Journal."

FIRST-CLASS SITE AGENT, also GENERAL FOREMAN REQUIRED for contract about to commence in the Middlesex area.—Write Box 1042, c/o Murray and Phelan, Ltd., Columbia House, Aldwych, W.C.2.

COUNTY BOROUGH OF SUNDERLAND.

PUBLIC WORKS DEPARTMENT.

APPLICATIONS are invited for the POST of BUYER, Grade A.P.T. III (£960-£1,140 per annum).

Candidates should have experience in buying for building and civil engineering works (contract and maintenance) on a large scale, including the preparation of materials schedules from Bills of Quantities, etc.

Further particulars and form of application may be obtained from the Public Works Manager, Ivor House, 1 and 3 Otto Terrace, Sunderland.

Applications, suitably endorsed, to be addressed to the undersigned at the Town Hall, Sunderland, so as to reach me not later than MONDAY, 12th June, 1961.

The Corporation cannot undertake to provide housing accommodation, but are prepared to make advance on loan to purchase a house for own occupation and assist with removal and lodging expenses.

Canvassing will disqualify.

G. S. McINTIRE,
Town Clerk.

METROPOLITAN BOROUGH OF ST. MARYLEBONE.

CLERK OF WORKS REQUIRED, Borough Engineer's Department, Grade A.P.T. II (£815-£960), plus London Weighting. Permanent superannuable appointment. Applicants should have served apprenticeship within building trade and hold First-class City and Guilds Certificate or Certificate of Clerk of Works, or equivalent qualification. Experience in supervision of building works as general foreman and/or clerk of works essential.

Write ESTABLISHMENT OFFICER, Town Hall, St. Marylebone, W.1, for application form, returnable by 16th JUNE, 1961.

SWAZILAND PROTECTORATE.

PUBLIC WORKS DEPARTMENT.

CIVIL ENGINEER.

Qualifications: Candidates, aged between 35-45, must have a university degree recognised by the Institution of Civil Engineers, or be A.M.I.C.E., with at least 10 years' post-graduate experience in the design, construction and maintenance of high-class gravel and black top roads.

Duties: Control of survey branch and the design of minor structures, such as culverts and small bridges; preparation of a detailed traffic survey of the territory and the supervision of the materials control group, which will involve the interpretation of soils data and working out of pavement design.

Terms of Appointment: Contract for three years, with gratuity of 12½ per cent.

Emoluments: In scale £1,280-£1,848 per annum.

Free passages. Generous leave.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1, quoting BCD112/76/01/D/14, and giving brief details of age, qualifications and experience.

UNIVERSITY OF EXETER.

The University of Exeter REQUIRES a CLERK OF WORKS to supervise construction of their new chemistry building, designed by Basil Spence and Partners. The 24-month contract starts in July. Experience on major reinforced concrete structures is essential.

Apply in writing, stating previous experience and salary required, together with the names and addresses of three referees, to the SECRETARY, University of Exeter, Northcote House, Exeter, by 10th JUNE, 1961.

WINSFORD URBAN DISTRICT COUNCIL.

SWANLOW SOUTH SEWERAGE SCHEME.

FIXED-PRICE TENDERS are invited from experienced contractors for CARRYING OUT the ABOVE SCHEME, involving the Laying of approx. 2,190yd. of 12in., 9in. and 6in. Foul Sewer, together with ancillary works.

Form of Tender, Bill of Quantities, Specification and Plans may be obtained on application to L. E. WAKEFIELD, A.M.I.Mun.E., Engineer and Surveyor, Council Offices, Over Hall, Winsford, on receipt of a deposit of Two Guineas which will be returned on submission of a bona-fide Tender and the return of all documents and plans.

Tenders, on the form provided, enclosed in the special envelope, must be delivered to the undersigned not later than Noon on MONDAY, 19th June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

N. BROWNING,
Clerk of the Council.

19th May, 1961.

EXPERIENCED ASSISTANT BUYER REQUIRED for busy commercial department in rapidly expanding building and civil engineering company near Leigh. Must be accustomed to purchasing of building trade materials. Attractive conditions of employment offered.—Apply LOWTON CONSTRUCTION CO., LTD., Lowton St. Mary's, near Warrington.

FOREMAN/AGENT, experienced in river works, sheet piling, reinforced concrete, bridge construction. REQUIRED by expanding company of civil engineering contractors, for a contract in South-West London.—Written applications, giving full details of experience, previous employers, age, salary required, etc., to Box V.4224, "The Contract Journal."

SITE ENGINEERS/SURVEYORS REQUIRED by civil engineering contractors based in Hull. Experienced setting-out, measuring, valuations and final accounts, and able to work with minimum supervision. Pension and life assurance scheme. Excellent prospects.—Write, giving full details in strictest confidence, to Box V.4222, "The Contract Journal."

DEPOT MANAGER REQUIRED for plant depot of national civil engineering contractors. Basic engineering training, and preferably workshop experience, is necessary, combined with correct temperament and character, to carry out managerial duties successfully. Salary range, dependent on experience and qualifications, lies between £1,100 and £1,400 p.a. In addition, a bonus is payable, and a pension scheme is in operation after a short qualifying period.—Write Box V.4223, "The Contract Journal."

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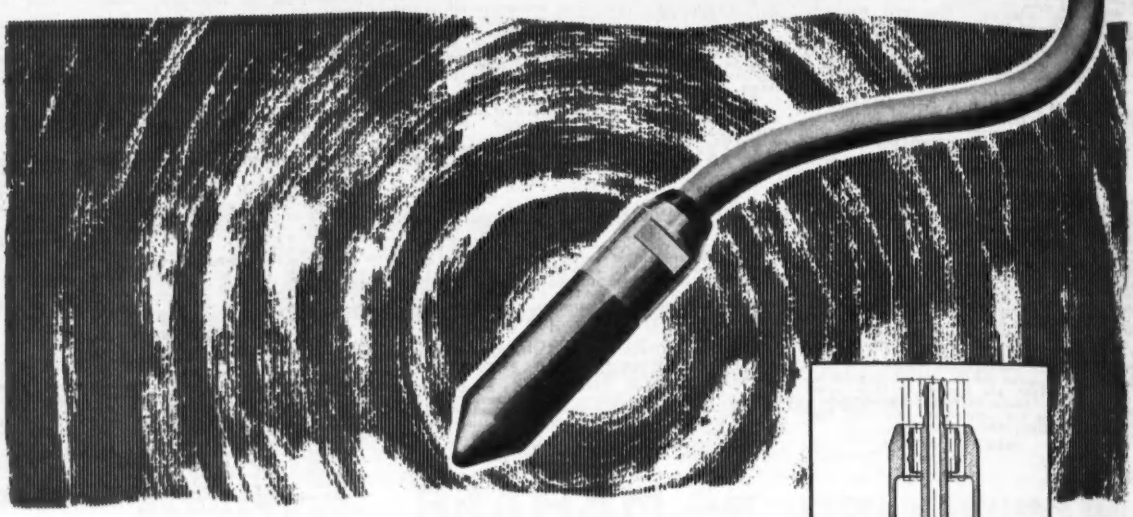

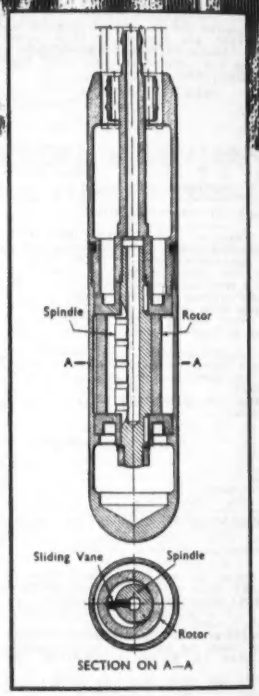

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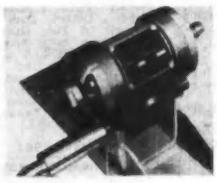

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THE
CONTRACT JOURNAL
INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

THE CONTRACT JOURNAL
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THE BRITISH CONSTRUCTIONAL ENGINEER
and
THE CONTRACTOR
Established 1879

No. 4,274 Vol. CLXXXI May 25, 1961

Editor:
LAWRENCE McCARTHY

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Publishers

The Contract Journal Co., Ltd.,
32 Southwark Bridge Road, London, S.E.1.
Telephone: Waterloo 3411 (7 lines).
Telegrams: "Seejasir," Sedist, London.

Subscriptions

"The Contract Journal" can be supplied direct from the above offices. Subscriptions, payable in advance: Yearly, £5 4s. (post free); half-yearly, £2 12s. An order form appears on page 1032.

Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

THE ALL-IN BID DEFENDED

FOLLOWING our recent editorial, "The All-in Bid Under Attack", which dealt with the Chicago Plan for Separate Bids published by the Mechanical Speciality Contractors of Chicago, the Associated General Contractors of America have sent us their plan for the receipt and handling of sub-bids together with a document called "The Single Contract System". Both publications are summarised elsewhere in this issue.

"The Single Contract System" claims that undivided responsibility is the key to lower construction costs. The document consists largely of testimonials in support of this view from Federal, State and local authorities and private industrialists. There are two impressive diagrams in the booklet showing how the main contractor, stationed strategically between the building owner, his architect and engineer on one hand and the numerous requirements of the project on the other, produce an efficient co-ordinated organisation giving completion on time and guaranteed cost.

This centralisation of responsibility through the main contractor is the overriding advantage claimed for the single contract system. In the words of the Associated General Contractors, "experiences of the construction industry have demonstrated that maximum efficiency in the construction of a project, which requires interlocking operations, is secured when undivided responsibility for its execution is placed upon an experienced competent general contractor through the award of one general contract".

It does, however, seem to be recognised that certain unethical and unfair trade practices impair the effective operation of this system and the Associated General Contractors jointly with the Council of Mechanical Speciality Contracting Industries have produced a plan for the handling and receipt of the bids for the mechanical services works designed to eliminate unqualified bidders, improper disclosure of prices and unfair competition. Essentially this plan requires the main contractor to list his sub-bidders in advance and allows the sub-bidders to telephone or telegraph their prices to the main contractor only four hours prior to the submission of the main bid.

What is interesting is that the Mechanical Speciality Contractors of Chicago (who must be at variance with their main Council in this issue) claim that these safeguards have not in fact prevented the unethical practices.

What is also interesting is that the Associated General Contractors only seek to prove that the single contract system is superior to the separate contracts system whereby the client enters into separate contracts with each trade. This is in fact the traditional procedure in Scotland and it clearly can result in an unco-ordinated effort and for that reason some Scottish authorities are forsaking it.

The Associated General Contractors do not, however, comment upon the third alternative which is the traditional procedure in England and Wales. Under this system the bids for the mechanical services works are returned to the architect or engineer thus preventing improper disclosure of prices, but the sub-contractors for these works, when appointed, are made directly responsible to the main contractor for proper and timely completion. Thus centralised control through the main contractor is preserved.

The role of the professions in the question of co-ordination must not be overlooked. There are many in this country who feel that the architect and the engineer by their training and position are best suited to the role of overall co-ordinator. The Associated General Contractors state however that the American Institute of Architects warns its members that an architect who attempts to be a co-ordinator "will find that expense will be greatly increased and that his own burdens and responsibilities will be much greater than he might suppose". It would be interesting to know what the R.I.B.A. thinks about this!

Certainly, centralised control and co-ordination are vital functions that must be paid for. It may well be that the 2½ per cent. discount to main contractors is the wrong way to remunerate them for their share of this work and that consideration might be given to the American system of co-ordination fees. Remuneration to the architect for his contribution to co-ordination is something that might also be reviewed.

But on the question of tendering procedure we repeat the last paragraph of our previous leader:—

> "Contract methods are changing and rightly so, in order to speed up progress and improve control and co-ordination of the various interests concerned. But the sound and incorruptible principles of the traditional British system must not be ignored. It is perhaps more a matter of improving and streamlining this system rather than embarking on something new. Otherwise instead of just eradicating the present shortcomings far greater and more sinister evils may be created."

The Associated General Contractors of America say they are in agreement with this. Perhaps they may find something to learn from a closer study of our system as the third alternative.

An Economist Comments . . .

EUROPEAN ECONOMIC COMMUNITY AND CONTRACTORS

THERE is a similarity between (1) manufacturing industry and European Free Trade and (2) contractors and firm-price tenders. Both are doing a lot of guessing. However, although opinion at the political level may still be divided, it seems that before long the Government may commit Britain to membership of the European Economic Community to which France, Germany, Italy and the Benelux Countries already belong. In this case, a useful purpose may be served by putting down some of the likely effects for contractors.

One thing seems reasonably certain: contracting, being mainly a domestic industry, is unlikely to lose by the arrangement; it might even gain to some extent. Most manufacturers, including a number who produce building materials, would lose the shelter of the tariff barrier, and would be faced with stiffer European competition; on the other hand, they would have better opportunities in the European markets.

The extent of tariff protection in Britain varies a great deal from one article to another. As a general rule all imports from outside the Commonwealth are subject to a 10 per cent. *ad valorem* duty; but there are special duties for a large number of products and, in some cases, the duties are much higher; thus the average rate of duty on manufactured goods is 20 to 25 per cent.

As regards iron and steel products, there is a complicated series of fairly high duties from the European Economic Community countries. Bricks from the same countries carry an import duty of 10 per cent., cement 5 per cent., tiles 15 per cent. Already, during times of shortages, some contractors have found that imports of these materials have been worth while, even after import duties and increased freight charges have been paid. Any reduction in import duties would make them an even more favourable proposition, although their bulk in relation to value means that freight costs would still be heavy.

Western European competition in glazed tiles, asbestos-cement products and glass seems certain, probably quite serious. Already there have been appreciable imports of glazed tiles from both Eastern and Western Europe. Prices of imported asbestos-cement products and flat glass are also competitive at present. But competition is likely to be particularly keen in the field of building fitments which involve considerable manufacture, such as locks, taps and valves.

The entry of Britain to the Common Market would not mean the end of contractors material supply and price problems: but it contains intriguing possibilities.

Steel Supply Prospects

One thing I like about the Iron and Steel Board's recent Development Report is the Board's willingness to admit past errors. For example, dealing with ferro-concrete bars and rods it is candidly admitted that the demand has greatly outrun the Board's 1957 expectations; these were based on the assumption that consumption had then passed a peak and was coming back into line with new construction expenditure. The greatly increased resort to ferro-concrete (predicted incidentally by the concrete engineers and the Reinforced Concrete Association), seems to have arrived suddenly in 1959 possibly because of greater supplies of bars and rods and because of the unusually large number of civil engineering projects and tall buildings in their early stages. Against this, the Board considers that there are certain factors tending to moderate the demand for reinforcing rods: for example, the present shift towards factory building should favour steel structures which, for single storeys, are generally cheaper; the increased building in the development areas, where space is often greater, may lead to a tendency to build outwards rather than upwards. Nevertheless, the Board is impressed by the Reinforced Concrete Association's estimate that some 800,000 tons of reinforcing rods will be required by 1965, and has decided to be on the safe side and plan for a capacity of 950,000 tons to include 450,000 tons for the smaller sizes produced in coil form and 500,000 tons for the larger sizes; this division represents a large increase in the proportion of thin rods. If these forecasts are fulfilled the present very unsatisfactory rod situation should improve as time goes on.

Elsewhere the report points to the construction industry's falling demand for heavy rolled products. Three important changes are taking place: (1) the use of broad flange beams, (2) the additional use of ferro-concrete and (3) the use of light sectional materials formed from strip.

The Board appear confident that the capacity planned for 1965 will be ample for all requirements.

Steel Prices

However this may be, steel prices look like rising in the not so distant future. The producers put a case to the Steel Board before Christmas following a rise in steel workers' wages and in the price of coal. Rising productivity and cheaper imported iron ore have probably held the line since then. Now, like cement, the Budget oil duty has altered the position. The producers estimate that this may add about 8s. to the cost of a ton of steel. In these circumstances the Steel Board may find it difficult to block an increase indefinitely, even if they wish to. An increase in steel prices before the summer is out is certainly on the cards.

Cement Prices

The cement price increase seems to have caught a number of contractors unawares. Rather surprisingly perhaps. Cement prices have not risen for about three years; in fact they dropped a little early in 1960. Coal costs have gone up; so have a number of other costs, not least the cost of labour. There has been a steady trend in the industry from coal burning to oil burning and now fuel oil is to be taxed. The industry has the backing of the Restrictive Practices Court for its pricing system; indeed it is said that the latest increase would have been greater had the special rebates been allowed to remain. On top of this deliveries of cement are beating all records.

This is not to make the cement manufacturers' case for them: still less to be wise after the event. But it is yet another example of the effects of the one-sided firm-price tendering "agreement" whereby the contractor shoulders practically all the risks. In the circumstances one can only note that cement prices will again be reviewed early in July. The cement industry will not publicly hazard a guess at the outcome, although they acknowledge the importance of stabilisation. One thing worth bearing in mind in forecasting material price changes is that, in general, wage rates in the building material industries follow closely those negotiated for building and contracting.

Next time, I hope to consider wage demand trends in other industries, and particularly in those industries that have a bearing on contracting.

80th ANNIVERSARY EXHIBITION

Hammersmith College of Art and Building

THE Hammersmith College of Art and Building is currently celebrating its eightieth anniversary with an exhibition at the Building Centre, Store Street, London, W.C.1. Opened last week by Mr. R. H. M. Thompson, Parliamentary Secretary, Ministry of Works, the exhibition closes on June 3.

With the building industry diversifying into ever-narrower and more numerous fields of specialisation under the impact of post-war technologies, the need for proper understanding and effective co-operation between all the specialists who contribute to a finished building becomes increasingly vital. It imposes on those whose job it is to train the future workers in the industry the responsibility not only of seeing that they acquire a high standard of competence in traditional and new techniques but of ensuring that these often highly complex skills are not wasted or mis-used through want of understanding of the role that each plays and lack of sufficient experience of how they work together towards a common goal. It is, therefore, on on this aspect of its responsibility that the College, with its record of training in all the arts and techniques associated with building, has chosen to lay stress in celebrating its eightieth anniversary with this exhibition at the Building Centre.

Common Contribution

The exhibits have been selected not especially to show the best work of which the students are capable but rather to illustrate the respective contribution that every department of the College—art, architecture, building crafts, and the building professions—makes when working together on common projects. They are displayed in a sequence which follows more or less exactly the progression of actual building, beginning with the architect's sketch designs and proceeding through site survey, the preparation of detailed plans and quantities, the processes of building construction, interior design, decoration and furnishing, sculpture and painting, and ending with fashion and dress design for the people who will inhabit it.

Each major section of the College has a place allocated to it around a central core —loosely symbolising their inter-relation by an interlocking pattern of brightly coloured boards—where photographs of students at work are shown alongside the plans, sketches, drawings or specifications to which they have been working, each of which details their specialist contribution to exhibits forming part of one or another common project. Thus, the site which the surveying students are shown prospecting is that for a riverside club to which the engineers have contributed a structural model, the science labs a soil survey, the quantity surveyors a bill, the interior designers a layout, and finally... the sculptors a relief wall and a statue. And so for each stand, the projects recur but the exhibits change as each section makes its appropriate specialist contribution.

£1,435,000 CARDIGANSHIRE WATER SUPPLY

First Stage of the Regional Scheme Inaugurated

THE completion of the first stage of a regional scheme of water supply, providing 900,000 gallons per day, was marked recently with the opening of the Teifi Pools scheme for South Cardiganshire Water Board.

An impounding reservoir has been formed in raising 10ft. the natural level of Llyn Teifi, the source of the river Teifi, by building a series of dams or embankments on its western shores.

Earth Dams

The dams are earthen embankments with concrete cut-offs and core walls to prevent any escape of water from the reservoir. Their total length is 460yd. and the maximum height above the original ground level 20ft. When the reservoir is filled to overflow level, which is 1,337ft. above sea level, 154 million gallons of water is available.

A total of 279 acres of land drain direct into Teifi reservoir whilst a 24in. aqueduct has been laid to it from an old reservoir about a quarter of a mile distant. The existing reservoir which has been made water tight by pressure grouting does not add to the available storage, but increases the catchment area by 322 acres, making 601 acres in all. Assuming that the average annual rainfall is 67in., it is estimated that the net yield from the reservoir will be 900,000 gallons per day.

The Board are obliged to discharge into the River Teifi compensation water at the rate of 120,000 gallons per day. In addition, the River Board may require the Board to provide a freshet of 480,000 gallons in a period of 24 hours once in each of the months of June, July, August and September.

The length of the spillway, which is designed for a maximum flood discharge of 800 cusecs (18 million gallons per hour), is 63ft. Water levels in the reservoir are continuously and automatically recorded.

Because of its remoteness and probable isolation in winter, it was decided that Teifi Reservoir would not be a suitable site for the treatment works, which has been built two miles downstream of Llyn Teifi, near Cistercian Abbey at Strata Florida.

Water from the reservoir to the treatment works is conveyed by means of 16in. and 15in. pipes. Asbestos cement pipes, the most economical material, were used for the first half mile. As this type of pipe can be used only for a limited range of pressures, spun iron pipes, protected internally with concrete linings, and steel pipes, were laid at the lower levels. The steel pipes are protected internally with bitumen linings and externally with bitumen sheathings. Cathodic protection has also been applied to the steel pipes.

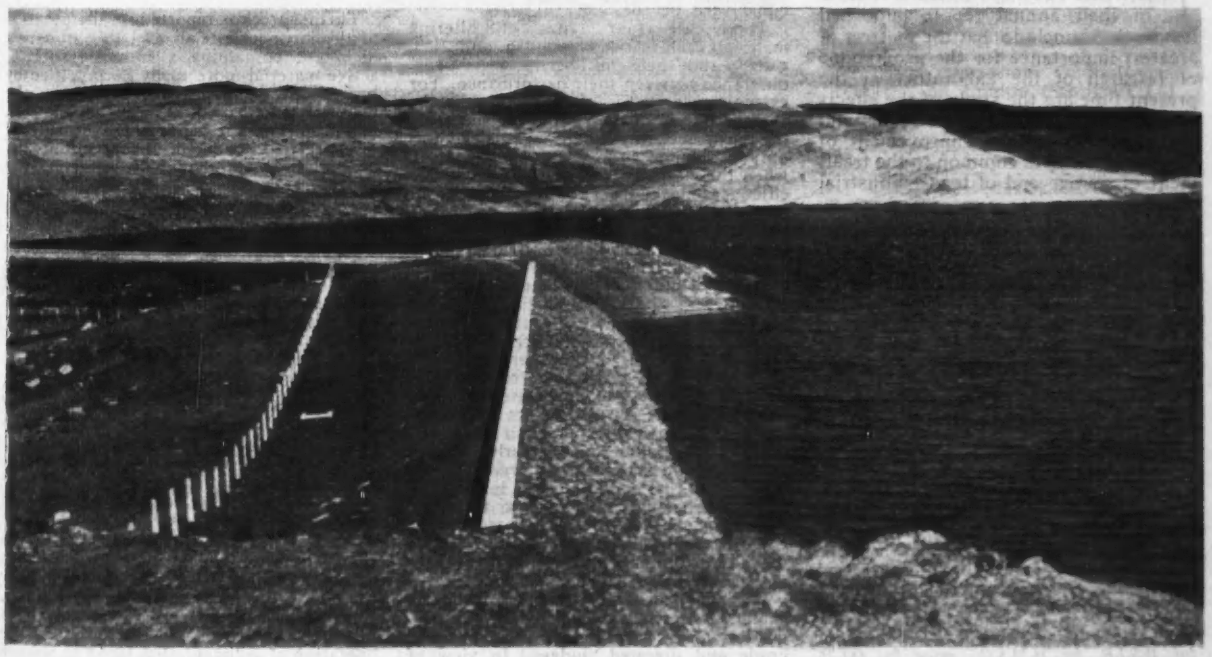
The recorder house and spillway at Teifi Reservoir

Treatment Works

The buildings comprising the treatment works have been designed to accommodate treatment plant for the second stage works at Llyn Egnant as well as the output from Teifi reservoir. Plant already installed to treat 900,000 gallons per day include four pressure filters, eight high speed chemical mixers including standby plant, chlorinators and dechlorinators and air scouring plant.

A feature of the plant is the very high pressure, about 700ft. head, under which it operates. This has been necessary to transmit treated water to the Rhos Ymryson Reservoir at an elevation of 1,065ft. above sea level, some 25 miles away.

The raw water is coloured, due to peat, has a low PH value (i.e. it is an acid water) alkalinity and hardness. Aluminium sulphate (alum) is added to the water to



Teifi Reservoir—Nos. 1 and 2 dams

coagulate colour and suspended matter. Calcium sulphate is added to assist the alum coagulation and to increase the permanent hardness content. Sodium carbonate (soda ash) and sodium bicarbonate are added to increase alkalinity and PH value and the water is dosed with chlorine to destroy harmful bacteria and organic matter.

Dosed water is then passed through the pressure filters which remove the coagulated suspended matter and afterwards dosed with sodium carbonate and sodium bicarbonate to increase the alkalinity of the treated water. Finally, sulphur dioxide is injected into the treated water to control the chlorine residual.

Duplicate high speed mixing tanks have been provided for each chemical. Duplicate Simplex pumps have been installed for the alum whilst four Simplex pumps have been installed for calcium sulphate, sodium carbonate and sodium bicarbonate; the fourth pump being a standby for any of these three chemicals. Duplicate E.C.D. pumps have been provided for both chlorine and sulphur dioxide solutions.

Filters have to be cleaned periodically and this is done by scouring the filters with compressed air together with washing with clear water which is stored for the purpose in a 40-000-gallon washwater tank.

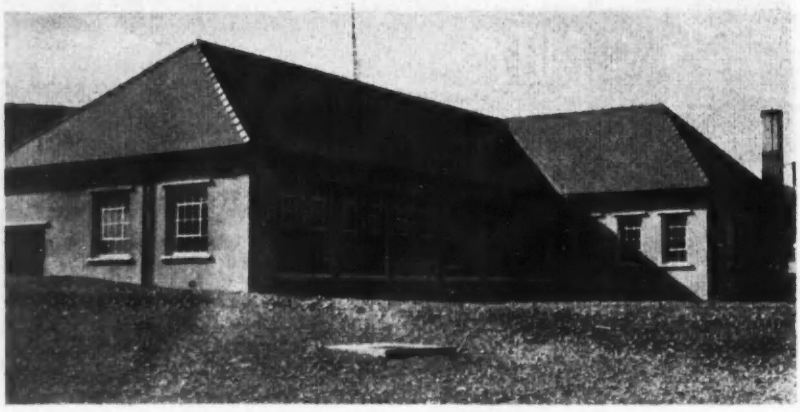
The plant is designed for automatic shutdown in the event of electrical failure or a reduction in flow below 90 per cent. of the predetermined set flow.

Trunk Mains

Trunk mains have been laid to connect the treatment works with service reservoirs at Rhos Ymryson and Penuwch.

The main to Rhos Ymryson comprising 16in. and 14in. diameter steel tubes protected internally and externally with bitumen linings and sheathing. Cathodic protection has also been applied to these pipes. At its lowest point it is subjected to a static pressure of 900ft. head. Service connections to farms and isolated properties en route have been provided.

The trunk main to Penuwch is 8in. diameter and in this instance, it has been possible to reduce pressures thus effecting considerable saving in mainlaying costs.



Strata Florida treatment works

Two main service reservoirs at Rhos Ymryson and Penuwch have been constructed, and work on the third, near Cardigan, will begin this summer.

Both service reservoirs have been built in reinforced concrete and both are covered. Rhos Ymryson reservoir has a capacity of 1½m. gallons, and that at Penuwch a capacity of 500,000 gallons. Water levels are continually recorded at these reservoirs and these levels can be automatically obtained by dialling the telephones installed there.

Distribution mains have been laid from the trunk mains and service reservoirs to service the whole of the Board's area of supply. These range in size from 12in. diameter to 3in. diameter.

In all, some 120 miles of trunk and distribution mains have, or are being, laid. These include: 6in. pipes from Lampeter (Deri Goch) to Aberayron; 9in. pipes from Rhos Ymryson Reservoir to Synod Inn; 10in. pipes from Rhos Ymryson Reservoir to Aberbanc; 8in. pipes from Aberbanc to Tanygroes; 6in. pipes from Tanygroes to Cardigan; 6in. pipes from Llanarth to Aberayron; 8in. and 6in. pipes from Penuwch to Aberayron; and 4in. and 3in. pipes to Ystrad Meurig, Swyddffynnon and Pontrhydygroes. In addition, link mains have been laid to connect the new distribution and trunk mains to existing systems at various parishes.

Consultants and Contractors

The scheme, estimated to cost £1,435,000, was designed by Rofe and Raffety, 9 Brewers Green, London, S.W.1.

Hussey Egan and Pickmere were the contractors for Teifi reservoir, the treatment works and Penuwch service reservoir. Gee, Walker and Slater, Ltd., built the Rhos Ymryson service reservoir and pipelines were laid by the following subcontractors: Dudley Boswell and Co., The Beechwood Construction Co., Williams and Morgans, D. C. Evans and Co., and Dan E. Evans and Sons. The treatment plant was supplied by the Permutit Co., and chlorinating equipment by Wallace and Tiernan.

WATER POLLUTION RESEARCH AT D.S.I.R. LABORATORY

THE Water Pollution Research Board, in their annual report published last week,* conclude that the matters of greatest importance for the programme of research of the Laboratory at the present time are the study of the effects of polluting substances in streams and the investigation and improvement of the basic processes common to the treatment of sewage and of many industrial wastes.

These basic processes include sedimentation of suspended solids, the dewatering of the resulting sludge, and the treatment of the liquid portion of the waste of biological methods; consequently these lines of research now take up a large proportion of the resources of the Laboratory.

Following are extracts from the report of the director, Dr. B. A. Southgate, C.B.E.:

Among the varied investigations of processes used in the treatment of sewage and industrial effluents, two are perhaps of particular importance. The first is a comparison of several types of media in large pilot-scale percolating filters treating Stevenage domestic sewage. During the year the installation operated without difficulty from ponding, the filters treating the sewage at a rate of 100 gallons per cubic yard per day, equivalent to the rather high loading of about 0.32lb. B.O.D. per cubic yard per day.

There are four types of filtering material, each in two sizes—1in. and 2½in. gauge—and there has been a very wide difference between their performance. For example, over a period of 12 months the average B.O.D. of the settled effluent from the least efficient medium—1in. slag—was only 11 p.p.m. From February to April, when the effluents were at their worst, the effluent from the large rounded gravel contained practically no nitrate, whereas with the small slag about 90 per cent. of the ammonia present had been nitrified. There were wide differences too between the proportions of anionic detergent removed by the different filters. These differences are shown to be related to the surface area of a given volume of the filtering material.

Investigation of the dewatering of sewage sludge is revealing some rather unexpected properties of this material. It is usual at large sewage works to digest sludge anaerobically before it is dried. Although digestion very greatly reduces nuisance from smell during drying, it has been found that at some works it increases the resistance of the sludge to filtration. This resistance is directly related to the ease of dewatering on rotary filters and to the rate of drainage during the first stages of dewatering on drying beds.

It seems that the changes in drying characteristics may be related to the proportion of fine suspended solids in the crude and digested sludges. In view of the importance of sludge-drying in sewage-works practice, an extensive programme of work has been started in which sludges treated in different ways are being dried in small beds in the open air.

Detergent Trials

Further work is reported on the progress of the large-scale trials at Luton of a new detergent containing a form of surface-active material more easily decomposed by bacteria at a sewage works than was the material at first used. As a result, the concentration of the surface-active material discharged in effluent from Luton decreased by more than half between 1958 and 1960.

Numerous samples of new types of surface-active materials, undergoing development by manufacturers, have been received during the past year and have been tested for susceptibility to biological attack. These tests have been made for the manufacturers on a repayment basis.

Instrumentation

A section of the report deals with the development of instruments and of methods of physical, chemical and radiochemical analysis. The W.P.R.L. suspended-solids recorder has undergone further development and has been used for monitoring the concentration of humus entering and leaving a humus tank.

Another form of this device is a simple sludge detector which when lowered into a sedimentation tank indicates accurately the level of the sludge layer on the bottom. This again has been used extensively both in experimental work and as an aid to the operation of sedimentation tanks at sewage works.

Water Pollution Research 1960. Published for D.S.I.R. by H.M.S.O., price 7s. ($1.26 U.S.A.), by post 7s. 7d.

COLLABORATION SPEEDS CONSTRUCTION OF £500,000 SCOTTISH FACTORY

CO-OPERATION on detailed construction planning from the earliest stages between clients, consultants and contractors has led to the early completion of Scotland's largest domestic appliances factory on a 1,100,000 sq. ft. site at the Kingsway, Dundee.

Typical of the planning was the work studying of site clearance on other projects which resulted in the initial clearance of the site being carried out by only one excavator and 10 dump trucks which moved over 100,000 cu. yd. of earth and rock in a matter of weeks.

It took less than three months to erect the steel framework and the remainder of the construction programme was carried out with matching speed.

Factory Buildings

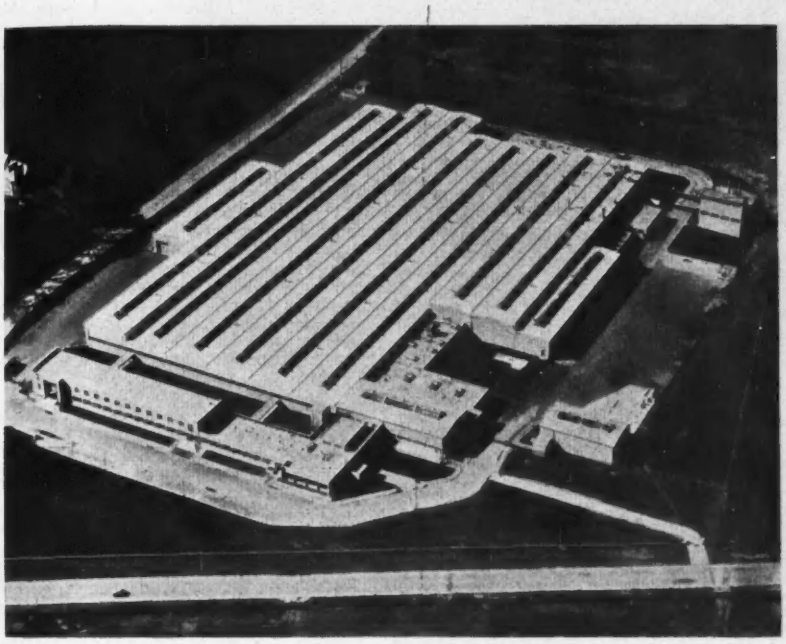
The factory and office buildings comprise a substantially rectangular structure approximately 750ft. from north to south, and approximately 450ft. from east to west. The roof is of the Warren Girder construction, having centre lights running north to south the full length of the factory.

The main factory production and service floor area under roof is 315,000 sq. ft., in addition to which, the administrative block, boilerhouse, garage, canteens, and kitchen, comprise 35,000 sq. ft.

The administrative block is a two-storeyed rectangular building running the full length of the front of the factory, (i.e. the south side), and is separated from the main building by a courtyard.

Two canteens, a dining room and kitchen are located in the south-east corner of the factory. A boilerhouse and garage are located to the north-east and south-east of the site respectively, and separated from the factory buildings by a roadway and vehicle marshalling area.

The factory floor is approximately 12in. of concrete with granolithic finish; it is at one level, with the exception of the off-loading and loading bays.



An aerial view of the new factory

The building has been specifically designed for the flow production of major domestic appliances particularly refrigerators.

Material flow is intended from west to east—so that on the west side of the factory is a covered off-loading section where the floor level is 3ft. 6in. below that of the main factory floor, and on the east side is a covered vehicle loading section, again with the floor 3ft. 6in. below that of the main factory.

Immediately east of the off-loading section is the stores area, and crane bays are provided to the north and south of this section for handling the heavier incoming materials

To the north-east of the main production area is a finishing department of some 20,000 sq. ft. separated from the production area by a partition wall. Again, on the east side, and south of the finishing department, are located ancillary buildings for providing electric power, compressed air, and processing services.

Over the main production area the roof ties are located 14ft. above floor level; in the crane bays and the product finishing section, the height is extended to 22ft.

A second floor is provided on the west side over the central stores area and on the east side over the despatch area.

Heating

The factory is heated by low pressure steam provided by two oil fired Thompson boilers, each capable of an output of 12½ million B.Th.U./hr. The boilerhouse also sites adequate tanks for oil and water storage.

A ring road surrounds the factory and provides adequate access to all sections. The southern aspect of the buildings, comprising the administrative block, runs almost parallel to the Kingsway, and is separated from it by a cultivated plot.

Consultants and Contractors

Erected at a cost of approximately £500,000 for the Industrial Estates Management Corporation for Scotland, and occupied by Morphy-Richards (Astral) Ltd., the factory was designed by Wylie, Shanks and Partners, Glasgow. The heating and electrical consultants were Donald Smith, Seymour and Rooley, Glasgow, and the quantity surveyors were James Barr and Sons, also of Glasgow.

The main contractors were Holland & Hannen and Cubitts (Scotland) Ltd., Royal Terrace, Edinburgh, 7.

OXFORD'S SUCCESSFUL INCENTIVE BONUS SCHEME

A REPORT by Oxford City Council Water Committee, on an experimental incentive bonus scheme introduced three years ago in connection with main laying works, describes the experiment as having convincingly demonstrated the benefits of such a scheme both to the Council and its employees.

Over the period of the experiment, states the report, which has covered works costing in total £112,715, the net saving to the Council, after the payment of bonus and taking into account the cost of administering the scheme, has amounted to between £3,000 and £5,000, and on the complete programme of main laying works in hand is expected to be between £5,000 and £7,000.

The scheme has led to improved methods of working and the use of mechanical equipment, many suggested by the employees themselves, and has resulted in an increase in output per man sufficient to earn an average bonus of approximately £1 3s. 9d. per week. Despite this, a reduction in the cost of labour amounting to approximately 5 per cent. of the total cost of the main laying works carried out has been achieved.

One of the most satisfying features of the scheme, continues the report, has been its effect on the retention of labour, which is illustrated by the following statement on the turnover since 1954:

Year	Number of men Starting Work with Dept.	Number of Men Leaving the Dept.	Average Number of Men Employed
1954	29	27	41
1955	15	12	44
1956	12	10	45
1957	15	14	45
1958	15	8	47
1959	4	3	48
1960	8	3	49

£20M. KNIGHTSBRIDGE REDEVELOPMENT SCHEME

Approval in principle has been given by the L.C.C. to the scheme for the comprehensive redevelopment of the junction of Knightsbridge, Brompton Road and Sloane Street, London, S.W.7. Proposed by Capital and Counties Property Co., Ltd., the scheme is estimated to cost £20 million.

More than 1¼ million sq. ft. of shops, offices and residential and hotel accommodation are expected to be provided on the five-acre site. The architects are Guy Morgan and Partners, 12a Eaton Square, London, S.W.1.

COST OF TRAFFIC SURVEY

The cost of the London traffic survey to be carried out for the L.C.C. Roads Committee is expected to be about £425,000. Of this amount about £125,000 is attributable to the costs outside the County of London, and of the cost inside London, the Ministry of Transport is expected to pay the normal grant of 50 per cent.

EASTERN PRESIDENT'S COMMENTS ON TEA BREAKS

A CALL for firmness on unpaid tea breaks by building employers is made by the president of the Eastern Federation of Building Trades Employers, Mr. C. E. Wadley, in his half yearly review which he will present to the Federation's summer meeting at Clacton next Tuesday.

He refers to the fact that the Chancellor has stated that the most recent wage round has provided increases beyond the rate of productivity increases. By tightening up on tea breaks and redoubling efforts to increase production, however, the cost of the building industry's latest wage award (6d. per hour and a reduced working week from October, 1961) may to some extent be met.

Commenting on the attitude of the unions towards this matter, Mr. Wadley says "While the unions are showing no misunderstanding on the reduced working week and a wages increase of 6d. per hour, there appears to be a curious loss of clarity of thought when it comes to the interpretation of the agreed revision of the Rule relating to refreshment breaks. One hopes that their customary mental acuity on wages and kindred matters will return in sufficient time for the unions to advise their members that refreshment breaks will be unpaid from next October."

Members of the Federation have received a special memorandum setting out clearly the meaning and purpose of the amendment to the Working Rule, which the Federation hopes will eliminate the wasteful and costly practice of paid tea breaks which has grown up over the years.

Confidence Restored

The president says, in relation to the economic position of the building industry, that capital investment is rising and the industry continues to experience a heavy demand for its services. The confidence, which had ebbed somewhat two years ago has now been fully restored. This is reflected in the figures for apprenticeship recruitment, which in the first four months of the year have shown a 10 per cent. increase on the corresponding period of 1960 and 50 per cent. more than in 1959.

On housebuilding, Mr. Wadley refers to the difficulty which some of the smaller firms are finding in competing with the financial strength of national developers and speculators. Nevertheless in spite of the land shortages, the review says that housebuilders continue to be very fully employed.

Finally, on building costs, the president says that stability now appears to be a thing of the past. To the uncertainty of labour and materials prices the Chancellor has now added the further hazard of a payroll tax which can only be regarded as a revenue-raiser adding to industrial costs and falling particularly heavily on an industry such as building where the labour content is high.

"The value of firm price tendering is such, however, that while pressing steadily for closer observance of the essential conditions (namely, proper pre-planning by architects and their clients) the Federation feels that this spur to efficient building should not be removed," the president concludes.

NORTHERN IRELAND BUILDING WAGE RISE

Agreement has been reached in the wage negotiations between the employers and the trade unions of the Joint Council for the Building and Civil Engineering Industry (Northern Ireland).

Rises of 6d. per hour will be made to craftsmen in all areas, 4d. per hour to labourers in the Belfast area, and 3d. per hour to labourers in all other areas, with effect from December 1 last. The working week will be reduced to 42 hours.

TELFORD MEDAL FOR SIR O. WILLIAMS AND SON

SIR OWEN WILLIAMS and his son, Mr. O. T. Williams, are the joint winners of the Telford Gold Medal—highest award of the Institution of Civil Engineers—for the 1959/60 Session.

They have been awarded the medal for their joint Paper, "The London-Birmingham Motorway (Luton-Dunchurch: Design and Execution)."

Other awards for the 1959/60 Session announced by the Institution of Civil Engineers include:

James Watt Medal: Mr. P. Chalmers and Mr. A. C. Layhe jointly (co-authors with Mr. Arthur Dean) for their Paper "The Mechanisation of Railway Civil Engineering Maintenance Work."

George Stephenson Medal: Mr. G. M. Binnie, Mr. J. G. Campbell, Mr. N. H. Gimson, Mr. P. F. F. Lancaster-Jones and Mr. C. A. Gillott, joint authors of the Paper, "The Dokan project: The Flood-disposal Works and the Grouted Cut-off Curtain."

Coopers Hill War Memorial Prize: Mr. W. N. Allan, and the late Mr. H. A. W. Morrice for the Paper, "Planning for the Ultimate Hydraulic Development of the Nile Valley."

Telford Premiums for Papers have been awarded to: Dr. G. Charlesworth and Mr. J. L. Paisley ("The Economic Assessment of Returns from Road Works"); Mr. N. W. B. Clarke and Mr. O. C. Young ("Some Structural Aspects of the Design of Concrete Pipelines"); Dr. R. K. Livesley ("The Place of Digital Computers in Civil Engineering"); Mr. E. S. Boniface ("Some Experiments in Artificial Recharge in the Lower Lee Valley"); Mr. E. O. Measor, Mr. L. B. Haley and Mr. A. J. Harris ("The Planning and Design of Maintenance Bases for Civil Aircraft"); Mr. F. S. Snow and Mr. N. S. Payne ("The Development of Gatwick Airport"); Dr. L. G. Jaeger and Professor A. W. Hendry ("The Analysis of Rectangular Diagrids by Anisotropic Plate Theory").

FURTHER AWE HYDRO CONTRACT FOR MITCHELL CONSTRUCTION

The Mitchell Construction Co., Peterborough, have been awarded a further contract by the North of Scotland Hydro-Electric Board in connection with the Inverawe Section of the Loch Awe hydro-electric project in Argyllshire.

The new contract, which is for the superstructure of the Inverawe Power Station, brings the total value of Mitchell's work on this scheme to about £3m. Their contracts already include that for the foundations of the power station.

James Shearer and Annand, of Dunfermline, are the architects for the station buildings, Merz and McLellan are the electrical and mechanical consultants, and James Williamson and Partners of Glasgow are the civil engineering consultants for the Inverawe and Cruachan sections of the Awe scheme.

UNIT CONSTRUCTION'S £1,913,000 OFFER FOR LAND

The Metropolitan Water Board last week accepted an offer of £1,913,000 from the Unit Construction Co., Ltd., for 45 acres of land at Barnes which is surplus to requirements.

The offer is subject to planning permission being obtained. Last October the Board were refused planning permission to build 793 dwellings, etc. The Board appealed and a public enquiry is to be held on June 6.

Unit Construction's bid is one of seven based on the Board's scheme which were received from the 26 concerns invited to submit tenders.

Late Construction News

WOODBRIDGE BY-PASS.—East Suffolk C.C. have placed a £1¼ million contract with Roadworks, Ltd., Ipswich, for the reconstruction of the 4¼-mile long Woodbridge By-pass, A.12. The existing 20ft. carriageway is to be strengthened and widened to 33ft. and short lengths of dual 24ft. carriageways will be constructed at certain road junctions.

SHEFFIELD ROAD CONTRACT.—Sheffield City Council's Direct Labour Department are about to start work on a £385,000 contract for the construction of a new road from Thomas Street/Fitzwilliam Street junction to Moorhead. The road will have a 24ft. carriageway carrying two-way traffic, and linking with Moorhead by means of a roundabout.

DALKEITH SHOPPING CENTRE. — John Dennis and Co., Ltd., White Hart Street, Dalkeith, have been awarded a £158,000 contract for the first stage of the B.C.'s scheme for a new shopping centre. This stage involves a block of offices and shops, and a curved block of shops, maisonnettes and office accommodation.

STEVENAGE FACTORY.—Work began this month on the erection of a factory at Stevenage, Herts., for Taylor Controls, Ltd. The contractors for the work, worth about £143,000, are A. Monk and Co., Ltd., 75 Victoria Street, London, S.W.1. Plans are by Courtaulds Technical Services, Ltd., Coventry.

£330,000 OFFICE BLOCK. — A £330,000 contract has been placed with Tersons, Ltd., Dollis Park, London, N.3, for the erection of an office building at Abbeydale Road, North Circular Road, London, N.W.10, for Lex Garages, Ltd. Work will begin on June 5. The architects are Lewis, Solomon, Kaye and Partners, Thavies Inn House, Holborn Circus, London, E.C.1, and the quantity surveyors are S. Lazarus and Partners, 67 New Cavendish Street, London, W.1.

16-STOREY FLATS AT GOSPORT.—Gosport B.C. have negotiated a £724,977 contract with George Wimpey and Co., Ltd., for building two 16-storey blocks of flats and a seawall/promenade at South Street. Electric underfloor heating will be provided in the blocks, which will contain 240 flats.

£500,000 ENGINEERING DEPARTMENT.—The main contract for the new engineering department at the University College of South Wales and Monmouthshire has been placed with E. Turner and Sons, Ltd., Penarth Road, Cardiff. The building will cost about £500,000. The consultants are: Sir Percy Thomas and Son, architects, 10 Cathedral Road, Cardiff; W. T. Hills and Co., quantity surveyors, 3 Cardiff Street, Cardiff; R. T. James and Partners, structural consultants, 6 Lower Grosvenor Place, London, W.1; Lucas and Pyke, electrical consultants, 25 Caxton Street, London, S.W.1; and N. E. Holloway and Partners, mechanical consultants, 17 St. Andrews Crescent, Cardiff.

DERBY SEWER CONTRACT.—Derby B.C. have been recommended to accept the tender of Lane Bros. (Mansfield), Ltd., Hermitage Lane, Mansfield, Notts., for contract 3 of the eastern intercepting sewer. The contract includes over 5,000yd. of sewers of various diameters.

£1½M. STEEL CONTRACTS. — Contracts worth £1½ million have been placed by the English Steel Corporation, Ltd., with Alex. Findlay and Co., Ltd., Motherwell, and Braithwaite and Co. (Structural), Ltd., Leatherhead, for the structural steelwork for their new £26 million works at Tinsley Park, Sheffield. The steel is for the bar mills, the melting shop, the blooming and billet mills.

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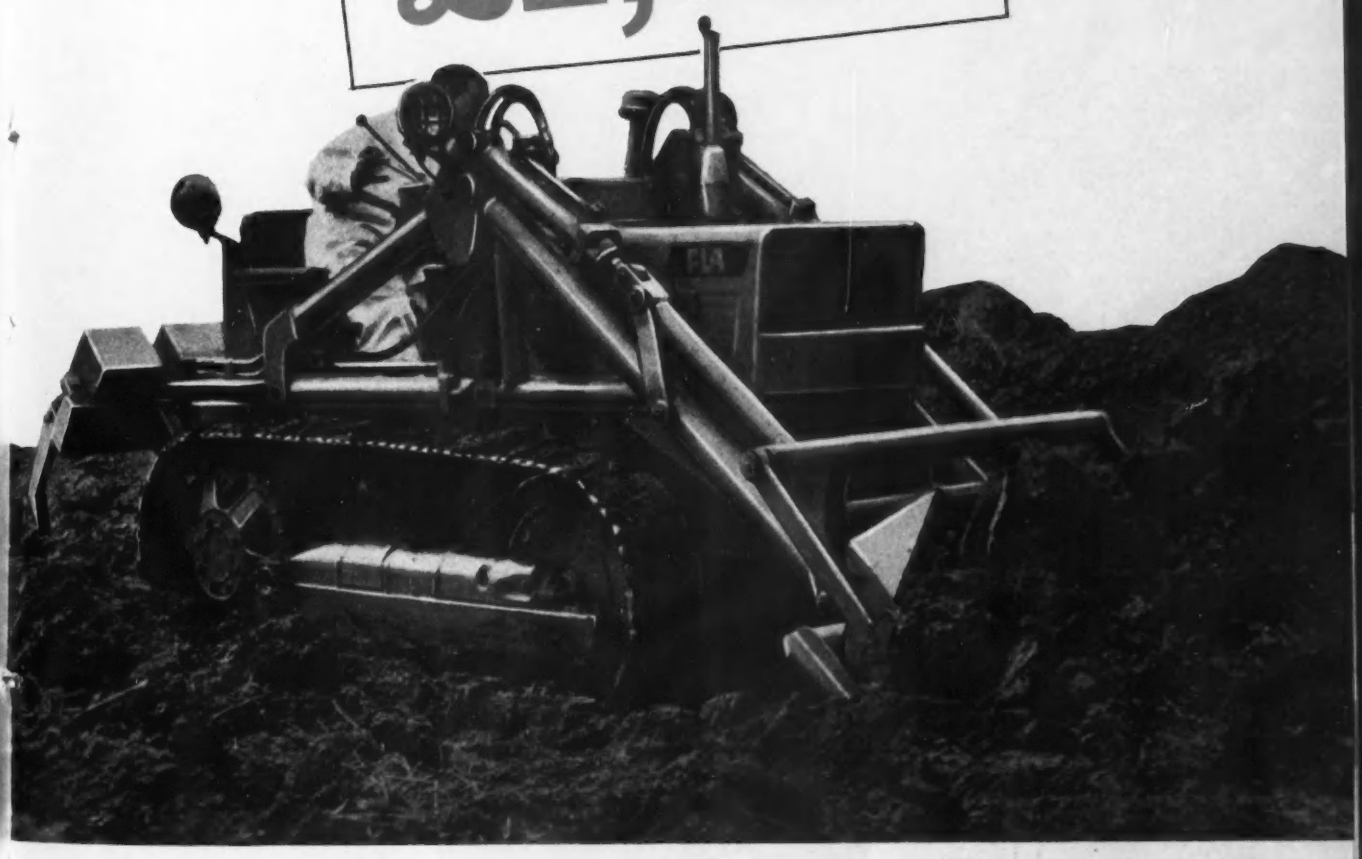

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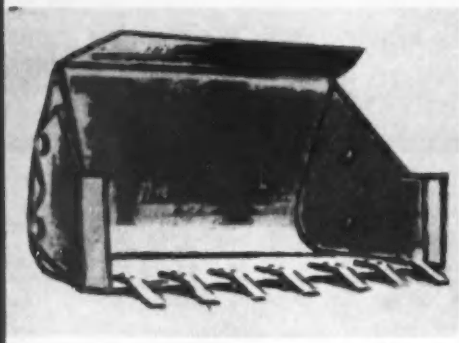

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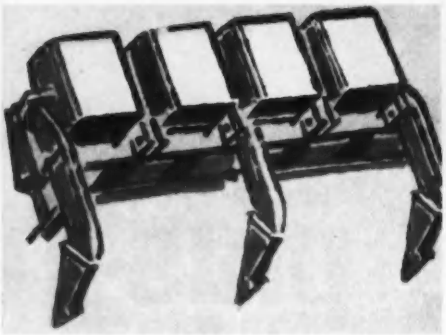
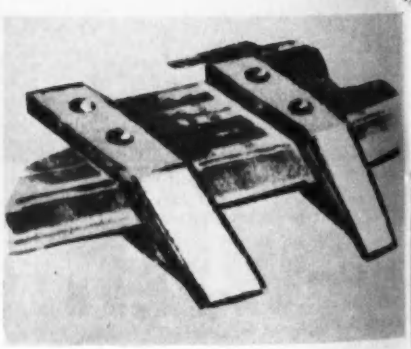


3 TINE HYDRAULIC RIPPER

Output increased by a third. Use of ripper reduces wear and tear on machine.



HEAVY DUTY BUCKET TEETH

Built for tough jobs. Easily removed.

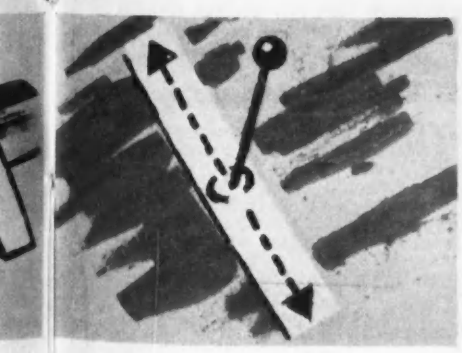
4 TRACTOR-SHOVEL

le for price—*and* performance

Countless users have already proved that the 40 h.p. Fiat FL4 is the machine least affected by weather or site conditions. For only the FL4 has the ideal combination of power, weight and traction to enable it to work where all other machines would fail. See for yourself the advantages this machine will give you.

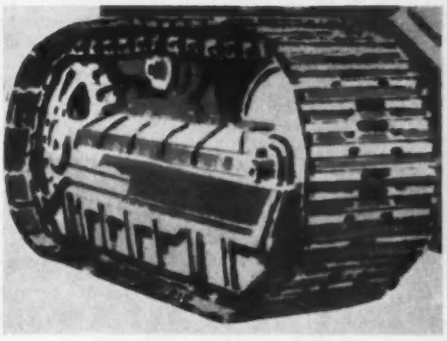
IDEAL FOR WORKING IN CONFINED SPACES. HERE AN FL4 IS TRIMMING SUGAR IN THE HOLD OF S.S. ARDROSSAN.

SE FEATURES AS STANDARD EQUIPMENT



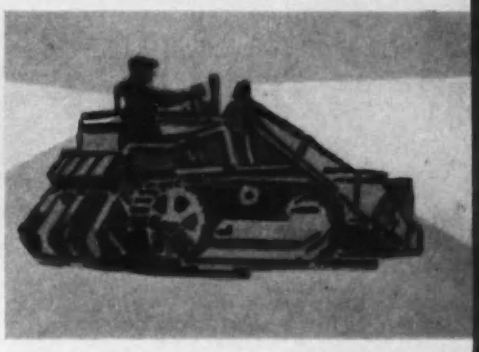
DIRECTION CONTROL LEVER

Instant change of direction in any of the four forward and four reverse gears. Clutch wear drastically reduced.



HEAVY DUTY TRACK WITH SOLID FRONT IDLER

Solid idler eliminates clogging by debris and packed earth.



24 VOLT STARTING AND LIGHTING

Main beam lights fitted front and rear.

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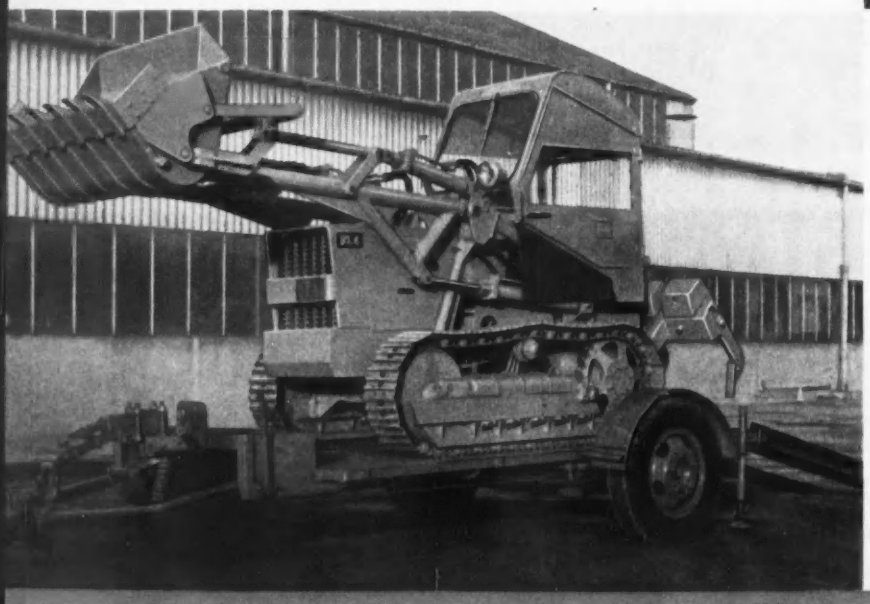
Greatly increases the versatility of the machine. Tip back bucket easily and speedily removed and the dozer blade 7′ 0″ x 1′ 10½″ fitted with a minimum of effort.



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THE BUILDER — WHAT OF THE FUTURE?

By Dr. C. A. Hart, L.M.B.A. Director*

MOST industries, not as traditional as building, have found it necessary to re-organise their structure drastically and establish an up-to-date educational policy at all levels.

I found it extraordinary that building, the largest male employing industry in the country, was without tangible signs of an effective up-to-date and generally recognisable long-term educational policy which to me, at any rate, both at craft and professional level, provides the status symbol.

Building, with its age-long craft traditions, has had little stimulation from architects who, like the builders and unlike civil engineers, have generally lacked modern scientific appreciation. The public, as clients, have often put a brake on progress. The builder, without stimulation and from lack of interest or recognition in higher educational circles, has tended to remain traditional—too traditional—and resistant, albeit perhaps unconsciously, to change in the structure of the industry. The hard facts of economics are forcing some changes anyway.

DR. C. A. HART

Those who were present at the recent lunch in honour of the Lord Mayor will not fail to have noticed how he stressed so ably some of the more important problems connected with our industry, in particular the need for an adequate supply of really skilled craftsmen, when he replied to what he called the "remarkable and masterly" survey of the industry given by our President.

Before building can rise from its present "Cinderella" aspect among industries, the professional status of its executives must rank, and be seen to rank, officially, professionally, academically and publicly with the present recognised learned professions. You will note that I have used the word "academically". Recognition by the Universities of the disciplines required to qualify in a profession is a sign of "academic respectability". In building it may at last soon be in sight. But the industry must realise that it cannot dictate to the Universities.

"Status" cannot be demanded—but has to be earned by a slow and careful process, which demands loyalty and forward-thinking from every member of the Association and of the National Federation, and it is an aim which is constantly before us.

Building Leadership

Perhaps one of our greatest problems at the moment is to convince some of the leaders of the industry (who have risen to the top by strength of character and purpose and endeavour along the slow and exacting craft route) that the educational pattern in this country has changed, in such a manner that there are opportunities for "creaming" off the best brains at various levels, and while the exceptional case may occur, there must in future be shorter and more selective routes to the top.

No industry can progress and prosper unless it has an integrated training policy —so that advancement to the top is possible by entry at all levels from craft apprenticeship to graduate. It is upon this basis that the structure of an industry must be based and we are working to that end.

Training of Craftsmen

The building industry is justly proud of its National Craft Apprenticeship Scheme which is something no other industry has achieved on such a basis. This unity, however, can give rise to certain problems, especially when these differ greatly in various parts of the country. The Association has recently given much thought to the way in which the standard of entry to craft apprenticeship may be raised and the best type of boy attracted to the industry. In London and the South there is much more emphasis upon pre-apprenticeship training than in the North. At present there is a Study Group set up by the National Federation to consider certain aspects of apprenticeship in the light of the changes in the educational pattern of the country.

I have been horrified to learn that an apprentice under our scheme is not required to qualify in his craft examinations, and there is nothing to stop him from breaking his indentures and getting full craft pay at an early age. Statistics indicate that advantage is being taken of this possibility, to the detriment of the industry.

It is my considered view that possession of a Craft Certificate after a course balancing theory and practice should be adequately rewarded by some form of merit pay. This in fact does connote the recognition of grades of skill in the crafts.

Foremanship

The General Foreman is a very special person, who has risen by strength of personality, intelligence and endeavour by that long and slow craft route. The modern educational pattern of staged selections will enable men of ability to make more rapid progress.

Personally I think we have been quite wrong to have referred to the courses which have been run as "Foremanship Courses".

There are two problems:

Firstly the established General Foreman (or Site Manager) requires a refresher course from time to time in new methods and new techniques.

Secondly, whether he enters via the crafts or via the office the promising young man should be given a training much wider than his particular craft or office activities, so that he becomes a "building technician" —which provides the necessary academic background so that given the necessary gifts of personality and intelligence, coupled with endeavour, he may rise to managerial status.

I am happy that the Association is now directing its endeavours along these general lines—although the title Foreman still persists.

The Professional Builder

The professional builder can rise to professional status by three routes:

(a) by the craft route, through site management, to a post carrying professional status and to professional membership of the I.O.B. by examination;

(b) by the student and pupil route of combined studies and work in industry, leading eventually to membership of the I.O.B. by examination;

(c) by graduate or diploma entry which carries certain exemptions from the I.O.B. exams and professional membership of the Institute after approved experience.

It is vitally important to realise that all three routes are essential for the well-being and prosperity of the industry, but I have no doubt that the second and third routes will become normal.

Until, however, the builders, and the architects and surveyors as well, all insist upon a general education with a strong scientific content and in some measure a common approach (with in some cases joint training) to their professional qualification, the building industry will not enjoy the advantages so gained in civil engineering.

Perhaps in time we may have a Joint Part I Examination agreed by the R.I.B.A., the R.I.C.S. and the I.O.B. This is not wishful thinking since it *has* been achieved by the Institutions of Civil, Mechanical and Electrical Engineers, all of which have equal status. Many leading positions in engineering are now held by University-trained men. Thus it has proved possible to co-ordinate the necessary basic scientific disciplines and the professional requirements between the Institutions examinations and between degrees of the various Universities.

In these negotiations the youngest Institution, the Electrical Engineers, have taken a prominent part and it may therefore be appropriate, since the builder is usually considered to be the junior partner, to mention here a Press comment on the lunch to the Lord Mayor: "It has become apparent that of late so much thought has been given to the technology of building that the industry is becoming the leader in the revolution in higher education which is upon us."

That is the way in which the publicly recognised status of the professional builder will become more and more apparent as time goes on. And I have no doubt that having, as we do, men of vision and enterprise who are dedicated to the cause, we shall continue to make progress.

*Address given at a recent meeting of the L.M.B.A. Central Area No. 1.

DIFFICULT STUD-WELDING OPERATION

A difficult stud-welding operation has recently been carried out at the Birmingham works of James Booth Aluminium, Ltd. The application was concerned with the welding of reinforcement steel to sheet piling in the 148in. rolling mill foundation for the extensions at the works.

Since the working of the rolling mill would cause a heavy vibration to be set up between the foundation and the piles, thus constituting a serious hazard, it was considered imperative to key the reinforced concrete foundation securely to the ⅜in. thick piles, which had been driven round the majority of the 80ft. x 100ft. x 23ft. excavations. Plain pins, ¼in. x 16in. long, were welded in situ to the piles which had been ground locally and despite such handicaps as cleaning, the moving of scaffolding and waiting for craneage, a good rate of progress was maintained throughout the working day, an average of about 37 studs per hour.

As concrete pouring proceeds and the various reinforcements are fitted these stud-welded plain pins will be bent in situ round the various reinforcing rods, thus giving a secure bond between the piles and the reinforced concrete foundation.

The main contractors for the job are C. Bryant and Son, Ltd., Birmingham. Carter Worseley, of Tipton, are sub-contractors for the stud-welding for which Crompton Parkinson equipment is being used. The reinforced concrete design has been undertaken by British Reinforced Concrete Co., Stafford.

A LAWYER CONSIDERS . . .

Taxable Profits and Work in Progress

THE treatment of the value of work in progress for tax purposes, which was the issue in *Ostime v Duple Motor Bodies, Ltd.*, and was discussed in an article in *The Contract Journal* for May 26, 1960, has now reached the House of Lords (reported in [(1961) 2 All E.R. 167]) and such finality as can be achieved on this matter has been achieved.

Put simply the position is that traders are assessed for tax on their annual profits or gains. The question therefore is to find out what those profits or gains are and in so doing the general rule is that the profits or gains of any particular year must be taken to be the difference between the receipts from the trade during the year and the expenditure laid out to earn those receipts. In working out what this difference is traders must, one, follow the ordinary principles of commercial accounting and, two, must be in conformity with the particular rules of the income tax statutes.

In regard to the obligation to follow recognised accountancy methods there is nothing in the income tax statutes that compels traders to do this. However, the courts have long recognised that this must be so and no trader could expect the courts to uphold a figure of profit arrived at by any means other than those approved in the accountancy profession. When, however, one comes to consider what are these approved methods which must be adopted a problem arises. Out of two methods, each of which has a respectable backing from opinion in the accountancy profession, how do you choose which one? If the directors of a trading company choose one method can the inland Revenue demand that they use another? It was precisely this kind of question that fell to be answered in this case.

The facts are quite brief. D. Ltd., were a company producing motor bodies to order. At the end of any accounting year there was of course the item of work in hand, but not finished, to be dealt with. In valuing it the company had used the "direct cost" method. The Revenue challenged this method and wanted it replaced by the "on-cost" method. The courts were asked to decide between the two parties.

Direct Cost and On Cost

It is beyond doubt that nowadays some account must be given, in arriving at a profit or loss figure, of the value of work in progress or stock in trade, according to the type of business. The reason for this was given by Lord Reid. If the amount of stock in trade or work in progress has increased during a year then, in effect, sums which would have gone to swell the year's profits have in fact gone towards financing the stock or work in progress. In placing a value on this stock or work in progress the value figure is easy to calculate if the stock consists of articles bought for re-sale; the figure will be the cost to the purchaser; but where that cost has exceeded, because of a change in economic conditions, the actual market value then it has always been permissible to substitute the lower figure of market value. The ascertainment of the value of work in progress is rather more difficult. But basically, and using Lord Reid's explanation of why one has to take account of work in progress, the question in this case was—how much of what would have gone to swell D. Ltd.'s profits has in fact gone into the financing their work in progress? The Revenue naturally argued for the largest possible sum to go in as this would increase the company's profits and the resultant tax yield; the company equally naturally argued for a lesser sum to go in to keep the profits down and thus reduce the tax payable.

The House of Lords did not find this adventure into the rather abstruse realms of accountancy much to their taste because the method for determining this sum which was supported by the Revenue, the "on-cost" method, and the "direct cost" method supported by D. Ltd., were, as stated above, both sound and in accordance with recognised accountancy principles. Their task was not made easier because the two methods are not easy to define. Broadly speaking "direct cost" merely included the labour and materials cost involve[illegible] in producing the work in progress. The "on-cost" method however included other cost elements, where applicable, such as factory expenses, selling expenses, head office expenses—all matters which could be covered by the term overheads.

The company's chief argument for using the "direct cost" method was that in the particular year in question work in progress had declined. Using their "direct cost" method this decline was reflected in the profits figure. If however the Revenue's "on-cost" method were adopted a smaller quantity of labour and materials would have to bear the same overheads expenses as when the labour and materials were greater; thus if trade is slack during any given year a greater proportion of the overheads will be allocated to the work in progress and, as the cost of the work in progress is to appear as an item of profit, this will swell the profits of the business; so this absurd result will follow that, when trade is slack, the trader's profit on the goods sold will be low as his expenses are high but his profit in respect of work in progress will be increased.

It was this argument which, one feels, really made up their Lordships' minds and they felt quite unable to insist on a change of method which, in a year when work had declined, would result in the value of work in progress being some £14,000 more than at the beginning of the year; using the company's method the value of the work in progress was £2,000 less at the end of the year than at the beginning which more justly reflected the actu[illegible] state of the company's trading. Fro[illegible] viewpoint it is clear that if the Reven[illegible] wanted to change the way the company worked out its value of work in progress it would have a fairly heavy burden to discharge; and on the figures quoted above it is obvious that the Revenue had not much chance of discharging this burden.

Market Value

As mentioned above it has always been regarded as permissible, in relation to the valuation of stock in trade, to substitute the market value for the actual cost which would usually be done where, for any reason, market value has become lower than cost. Lord Simonds did suggest, in view of this established practice, that in this case D. Ltd., could have substituted market value for the cost of the work in progress, calculated on either method; apparently the Revenue's counsel did not challenge this right though agreeing, as no doubt he had to, that the market value of a motor body made to order (which was the trade D. Ltd. carried on) might be pretty small—but one can think of some industries, and the constructional industries may be a good example, where the market value of work in progress would approximate to the labour and materials cost. So if, despite this case, the Revenue insisted on the on-cost method being adopted which produced unfair results, a company might well consider insisting on market value.

However, in a passage which may be of some importance, Lord Reid doubted whether, in relation to work in progress, this option to substitute market value for cost was applicable at all. He said, after referring to the Revenue's counsel's agreement that market value can be substituted for cost if cost is an unfair figure for working out profit, "I am not satisfied that 'market value' in its ordinary sense can be applied to work in progress. The rule, cost or market value, is not a substantive rule of law; it is a means of enabling a taxpayer to anticipate a loss by bringing the expected loss into account. The taxpayer must be able somehow to do that in relation to work in progress, but it may be that some modification of the rule will have to be applied if the taxpayer can show that he has probably already incurred a loss in connection with work in progress."

Conclusions

It may be safe to conclude generally from this decision that in working out profits for tax purposes the trader must comply with the relevant provisions of the income tax statutes; but that, in so far as those provisions do not compel an alteration in one the recognised accountancy methods of working out profits, traders can use any of those recognised methods they like; if the Revenue wish to compel a trader to adopt a different one of the recognised methods of accountancy then they must show either that the existing method must be modified or altered to meet some rule of the income tax stat[illegible] and/or that the method does not arrive at a fair figure of profit for a year bearing a real relation to the actual trading of the business; this latter task [illegible] very difficult one for the Revenue [illegible] ded a trader consistently applies th[illegible] d method of accountancy he has [illegible] to a [illegible]pt and complies with the [illegible] e income tax statutes, the res[illegible] of profit or loss is one which [illegible] will be bound to accept. The [illegible] presumably be as heavy on th[illegible] this case shows it is on the Reve[illegible] trader wished for any year to cha[illegible] he accountancy method he has ch[illegible] o adopt.

In view of the importance, beca[illegible] tax rates can and often do vary from ear to year, of getting a fair figure of pr[illegible]fit for any particular year and in view of the doubts of Lord Reid as to whe[illegible]er, in relation to work in progress, market value can be substituted for cost, it is to be hoped that accountants will pay special attention to this decision; and in particular to the need to get a valuation of work in progress which gives a true figure of profit in relation to the real trading position of the business and also satisfies the requirements of the Revenue.

SCOTTISH ROAD RESEARCH

Open Days at Thorntonhall

Open days will be held at the Scottish Branch of the Road Research Laboratory, D.S.I.R., at Thorntonhall, near Glasgow, on June 7 and 8, 1961.

Many aspects of the work of the Branch and of the main Laboratory will be on view. Of particular interest to Scottish engineers will be the research in progress on the use of morainic materials for the provision, at low co[illegible] of durable surfacings for Highland roads and the investigations that are being conducted on the problem of constructing roads over peat sub-[illegible]ils.

Other exhibits [illegible]ill illustrate recent research on the ren[illegible]val of ice and snow, the electrical heating of road surfaces, skidding in wet weather, the structural design of road pavements and the results of some traffic surveys carried out in Scotland.

DEFECTIVE ORIGINAL

TRADITIONAL IDEAS DISCARDED IN DESIGN OF BLUNDESTON PRISON, LOWESTOFT

WORK is now in progress near Lowestoft on the erection of Blundeston Prison which the Home Secretary, Mr. R. A. Butler, has described as the "most up-to-date in the world".

In designing the prison the Ministry of Works has produced not only one of the most modern prisons, but also an entirely new concept. Traditional ideas on prison design were discarded and a fresh approach made.

The main problems facing the Ministry designers were to increase security and, at the same time, get rid of the forbidding grey perimeter walls of the past; to raise standards of accommodation while reducing the overall area of the prison and so save building costs and the administrative cost of running the establishment; to add buildings for recreation and rehabilitation, to which access could be freely obtained without impairing internal security; and to concentrate the buildings in order to provide larger open areas for recreation and exercise, while still reducing the area normally occupied by a prison estblishment.

The broad principles adopted are based on four main units inside a security fence and comprise: (a) Central unit; (b) administration, reception and visiting; (c) hospital; (d) workshops.

Central Unit

This is the core of the prison, where the inmates are housed, fed, receive education and indulge in indoor association and activities. For administrative reasons four individual cell blocks each of 76 inmates have been planned, each under the supervision of Assistant Governor and House Officer. Each cell block is of four storeys. On the ground floor are the association rooms, quiet room, baths, Assistant Governor and House Officer, and sleeping accommodation on the three upper floors.

The T-shaped plan was evolved for ease of supervision and control, and observation by closed circuit television. This is the first occasion on which this medium has been used in prison administration in this country and will enable floors and corridors in cell blocks to be under observation from a single point.

The four cell blocks, although self-contained, are connected at ground floor level with the central spine unit. This comprises class rooms, hobbies, library, and staff offices on the ground floor, and a central kitchen serving four individual dining rooms on the first floor. The second floor has two chapels.

Planned in association with this group and forming part of the ground floor circulation is a multi-purpose assembly hall with stage, which will be used for concerts, cinema shows and gymnasium, and at the opposite end is a single storey punishment block with its own exercise area, and a central oil-fired boiler house providing low pressure hot water heating.

The administration block has been designed on the perimeter security fence. On the ground floor is the gate house, entrance, visiting and reception of new inmates, and on the first floor offices for administrative staff.

The hospital is very small, providing accommodation for eight patients in single rooms, and eight in a general ward, with a separate wing for outpatients.

The workshops of single storey construction provide a floor space of some 42,000ft. super and include a laundry, garage, general store, and workshops for tailors, painters and woodwork, together with a general and maintenance section.

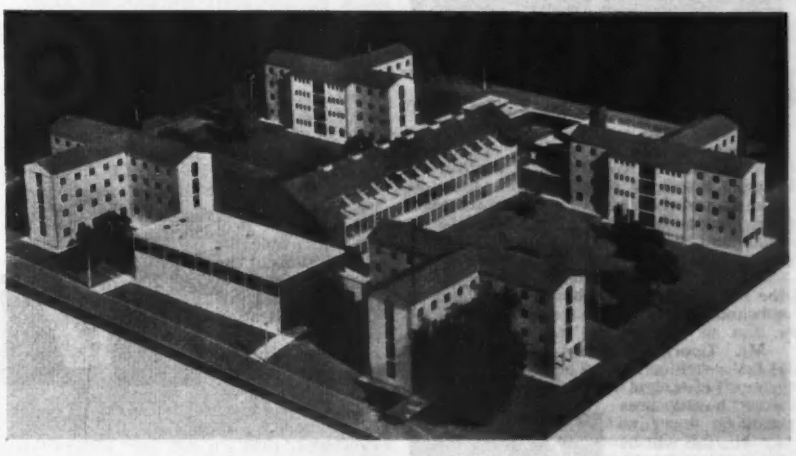
Generally, all internal finishes have been designed with a view to the hard wear they will receive and to reducing maintenance to a minimum. Plaster has been confined to the administration block, hospital and class rooms, elsewhere walls are fair face brick either left natural or treated with a plastic paint.

Externally a variety of facing bricks of constrasting or harmonious colour and texture will be used, with limited areas of exposed aggregate slabbing and rendering.

Great attention has been paid to the design of security windows and grilles, the general desire being to produce a group of buildings secure, but at the same time in contrast to the traditional prison appearance.

The whole of the security buildings are surrounded by a double fence—the inner being expanded metal 12ft. high and the outer screen fence of concrete posts with aggregate concrete panels 8ft. high.

Adjacent to the security compound will be initially 65 staff houses and a hostel for eight single persons, the layout being designed on the village green principle.



A model of Blundeston Prison

Construction work started on February 1, 1961, and is scheduled for completion early in 1963. The main contractors are Lavender McMillan (Contractors), Ltd., 54 Cheam Common Road, Worcester Park, Surrey.

The scheme has been designed in the Chief Architect's Division of the Ministry of Works under the supervision of A. C. Hopkinson, M.A., F.R.I.B.A., A.M.T.P.I., superintending architect, in consultation with the Director of Works, Prison Commission, Lt.-Col. S. P. Sartain, F.R.I.B.A., M.V.I. Architect in charge: F. L. Mason, A.R.I.B.A.

DIFFICULTIES OF FIRM PRICE TENDERING SHOW NO SIGNS OF ABATING

"THE difficulties builders and contractors are experiencing in submitting firm price tenders for contracts lasting up to two years show no signs of abating," stated Mr. Frank Russon, national president, at the half-yearly general meeting of the South Western Federation of Building Trades Employers, held in Plymouth last week.

"I think it is true to say that gradually we are convincing more and more people of the importance to the contractor of having full information and of the vital need, in the interests of economical building, to avoid last minute alterations to the schemes," he said.

"We still have a long way to go, however, before we can reach anything like perfection in the matter and the National Federation is now directing its efforts towards bringing building owners to understand their particular responsibilities when they decide to invite contractors to submit firm prices. If they do not, prices will inevitably rise.

"In view of the large volume of work for which they are responsible, this is a field in which the Government departments and local authorities can give contractors valuable assistance. If the Government departments and local authorities were to ensure, when nominating their own sub-contractors and suppliers, that *their* quotations should also be on a firm price basis, one of the building contractors' many headaches would be removed.

"The materials producers also have their responsibilities. It has always seemed to me, and I pressed these points in a letter I sent last month to Lord John Hope, the Minister of Works, more than a little unfair that builders should be called upon to provide firm prices when the materials producers are still content to hide behind their dependence on world prices for raw materials, increases in wages and transport costs, to justify their inability to give firm prices also.

"Only a week or so back, without any warning whatsoever, the cement industry raised its prices throughout the country by 3s. 3d. a ton. What sort of contingency should builders add to their firm prices for two years ahead to allow for this sort of action?"

G.P.O. PLAN £500,000 TRACKING STATION

Construction of a £500,000 ground radio tracking station, something like a "miniature Jodrell Bank," is planned by the General Post Office in connection with the Anglo-American transatlantic communications satellite projects.

It is reported that the station, which will transmit and receive signals by way of satellites in orbit, will be sited on the Goonhilly Downs, about 5 miles to the north of Lizard Point, Cornwall.

Men and Movements

MR. W. G. MITCHELL, chairman of Mitchell, Brothers, Sons and Co., Ltd., has been re-elected president of the Federation of Civil Engineering Contractors for a second year. **Mr. P. W. E. Holloway,** managing director of Holloway Holdings (London), Ltd., and chairman of

W. G. MITCHELL P. W. E. HOLLOWAY

Holloway Brothers (London), Ltd., has succeeded **Mr. A. J. Hill,** chairman of Taylor Woodrow Construction, Ltd., as chairman of the Federation. The new vice-chairman is **Mr. G. F. Egan,** of Hussey, Egan and Pickmere, Ltd.

Mr. C. E. Wrangham has retired from the boards of Davy-Ashmore, Ltd., and its subsidiaries.

Mr. George Wibrow is joining the H.E.V. (Electric) / Thermoduct, Ltd., group, Leeds, and will commence duties as southern area manager on June 1. His job will be to promote in the south the Thermoduct system of floor heating and range of electric circulator and electrode boilers manufactured by the group. After war service, Mr. Wibrow was employed as a senior estimator in the cables department of Siemens Electric Lamps and Supplies, Ltd. He joined the heating division of E. K. Cole, Ltd., in 1949, as an area engineer, and was promoted to executive technical and general sales in 1953.

G. WIBROW

Three directors of The Cementation Group's South African company are at present visiting London. They are **Mr. J. W. A. Wright,** chairman, **Mr. W. S. Garrett,** managing director, and **Mr. J. S. Crawhall.** During their stay they have had discussions with members of the group's parent board.

Mr. J. W. Draper, estates manager of the Norwich Union Insurance Societies, has been elected chairman of the Cambridge, Hunts., Norfolk and Suffolk Branch of the Royal Institution of Chartered Surveyors. His deputy, the vice-chairman, is **Mr. G. A. Lewis,** principal of Lewis and Marshall, quantity surveyors, Cambridge, and the new secretary is **Mr. J. L. Fielding,** of K. H. Fielding and Son, Norwich.

The appointment of **Mr. Howard L. Phillips** as manager of their International Division is announced by Nordberg Manufacturing Co., Milwaukee, Wisconsin. He succeeds **Mr. B. T. Eagerton,** who is retiring after 15 years with the company. In his new position Mr. Phillips will be responsible for all functions of the export sales department and for the administration of overseas branches, foreign manufacture and licence agreements. He joined the company in 1947 and, prior to his new appointment, was export sales manager.

H. L. PHILLIPS

Following the acquisition of Standard-Triumph International, Ltd., by Leyland Motors, Ltd., it is announced that in order to integrate the operation of the two companies, **Sir Henry Spurrier** has become chairman of Standard-Triumph International, with **Mr. Alick S. Dick** continuing as managing director. **Mr. S. Markland, Mr. S. Baybutt** and **Mr. D. G. Stokes** have also joined the board. **Mr. A. S. Dick** and **Mr. S. B. Dixon** have been invited to join the board of Leyland Motors, Ltd.

Mr. H. C. Challinor, chief engineer of Lysaght Scunthorpe Works of G.K.N. Steel Co., Ltd., has been made local director to the board of Lysaght Scunthorpe Works.

Back in England after spending a year abroad advising on the laying of natural material for building roads and airfields in five countries is **Mr. Andrew Blair,** of Rotary Hoes, Ltd. He carried out operations in Israel, Syria, Mauritius, Madagascar and Arabia, spending two months in each country. Mr. Blair specialises in training crews for his firm's soil stabilisation train.

Mr. J. H. Hawkey has been appointed director of contracts for the Keystone Paint and Varnish Co., Ltd. He joined the Berger group of companies in 1946 and in 1951 went overseas as the company's representative for the Middle East, Singapore and Malaya. In 1953 he became general manager of Sir W. A. Rose and Co., Ltd., and a director in 1959.

J. H. HAWKEY

Mr. Alex Johnston, works director of Martin, Black and Co. (Wire Ropes), Ltd., left London by air last Sunday for India, where he will remain for several weeks for on-the-spot talks about the buildings, plant and staff of Usha Martin Black (Wire Ropes), Ltd., Ranchi, near Calcutta, an associate company. He will have discussions with architects and contractors, and interviews with personnel for selection to the staff of Usha Martin Black. The selected staff will visit Scotland for training in the near future. A recent visitor to the company's Coatbridge works was **Mr. B. K. Jhawar,** an Indian director of Usha Martin Black.

Mr. C. M. Vignoles, C.B.E., managing director of Shell-Mex and B.P., Ltd., is retiring on June 30 and is to be succeeded by **Mr. J. E. H. Davies.** Mr. Davies, 45, joined Anglo-Iranian Oil Co.—now The British Petroleum Co., Ltd.—in 1946. Since 1956 he has been a general manager of that company. He was elected to the board of Shell-Mex and B.P., Ltd., in 1956, and to the board of B.P. Trading, Ltd., in 1960. Mr. Vignoles, who has been managing director since 1951, joined the Shell group in 1924.

Mr. Ian Bedford, captain of Middlesex County Cricket Club, has been appointed sales manager of Mabey and Johnson, Ltd. He has been area manager of the firm for many years, as well as a director of the associate company, Mabey Hire Co., Ltd.

Formerly a special director at the Crane Works, **Mr. W. Reside** has been appointed a director of Sir William Arrol and Co., Ltd. He will continue to act as chief engineer at the Crane Works.

Mr. P. Rodney Pollard has been appointed to the board of Mercantile Leasing Co., Ltd. He is on the group management committee of Mercantile Credit companies.

MUNICIPAL

Mr. R. A. Bromley has resigned as deputy borough engineer of Leamington Spa to become engineer and surveyor of Walton and Weybridge (Surrey) U.D.C.

Mr. Richard Bailey, surveyor to Honiton B.C. will resign at the end of the year.

The first of two 280 Michigan dozers being handed over to Mr. E. Evans, managing director of Costain Mining, Ltd., by Mr. N. D. Hodge, chairman of Scottish Land Development Corporation. The ceremony took place at Westfield opencast coal site, where Costain Mining are operating a £7m. contract

PERKINS DIESEL IN BEDFORD VANS

The 10/12 cwt. and 15 cwt. Bedford light vans are now available with a 1.6 litre Perkins diesel engine as a regular production option.

The engine is a specially modified Perkins Four 99 power unit, which is installed on the Bedford assembly line.

POLICE COLLEGE OCCUPIES HISTORIC HAMPSHIRE PROPERTY

New Buildings Added To The Original

BRAMSHILL HOUSE, a famous Hampshire property, has been transformed by the Ministry of Works to become the new Police College. While the 17th-century mansion continues to grace the countryside, extensive new buildings have been put on the site without detracting from the appearance of the original.

As much of the original buildings as possible has been retained and the house itself was converted to give the college its administrative offices, library, reading rooms, board rooms and recreation rooms. The stable block, kept intact, now contains staff quarters and a sick bay, beyond which a new cloister and garden give entry to the college dining hall. This, with the assembly hall and syndicate block, forms a closely knit group adjoining the old mansion and all of a scale agreeable to it. To this group has been added a smaller unit consisting of a shop, laundry and workshop.

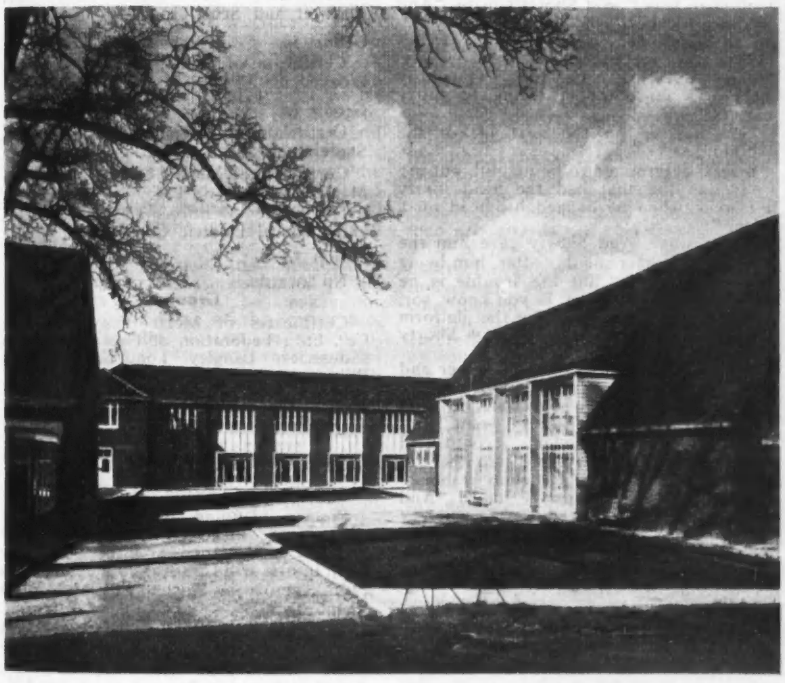
The dining hall—a gift of the Nuffield Foundation—features the Nuffield coat-of-arms on one of its gable ends and the furniture for it has all been specially designed. The assembly hall, fully equipped with stage and film facilities, will accommodate 320.

The remainder of the new buildings, comprising residential blocks, have been grouped round a quadrangle and placed within the wooded area of the grounds. They include quarters for the administrative, directing and domestic staffs, students male and female, and visitors. Apart from the requisite married quarters, now being added to, there are individual study-bedrooms for 226 students and it is hoped to make an early start on a further block to consist of 21 study rooms, two lecture theatres and a demonstration theatre.

Both the National Trust and the Royal Fine Art Commission were consulted at the planning stage.

Ministry of Works officials of the Chief Architect's Division concerned with the project were: W. Kendall, A.R.I.B.A., senior architect; A. G. Savill, A.R.I.B.A., architect; R. W. Pearson, M.Sc., A.M.I.C.E., senior structural engineer; R. T. Gillet, B.Sc., A.M.I.C.E., F.R.S.H., F.I.P.H.E., senior public health engineer.

Ministry of Works Regional Office, Reading, was responsible for site quantity surveying and supplies; working drawings were produced by John Gray and Partners, FF.R.I.B.A., and quantity surveying was carried out by Dearle and Henderson.



(Left) dining hall; (centre) assembly hall; and (right) syndicate centre

T.D.A. ARRANGE COURSES ON TIMBER ENGINEERING

THE Timber Development Association have arranged three courses on timber engineering, to take place during the year at the Association's research laboratories, at Tylers Green, near High Wycombe, Bucks. The first of these courses will be held from Monday, June 19 to Friday, June 23, inclusive.

Dates of the other two courses are October 9 to 13 and December 4 to 8.

Accommodation at the courses is limited and persons wishing to attend should get in touch with the Education Secretary, Timber Development Association Limited, 21 College Hill, London, E.C.4 (City 4771), as soon as possible.

WELSH CONTRACTORS' SAFETY TRAINING COURSE

A TWO-DAY safety training course for the civil engineering industry, organised by the South Wales and Monmouthshire Section of the Federation of Civil Engineering Contractors, was opened last week at the Territorial Army Headquarters, Llandaff North, Cardiff. Attending were fifty delegates drawn from companies of all sizes throughout South Wales.

D. SCOTT

Mr. Douglas Scott, managing director of Andrew Scott (Civil Engineers), Ltd., the course director, stressed the importance of safety training by stating that if the working life of a civil engineering operative were taken as 100,000 hours, every man was likely to be involved in two reportable accidents; the chance of death affected one in 50.

The Federation, he added, were taking every action possible to ensure that management and operatives in the industry were alive to the problems and that adequate precautions were taken by all members to see that works on civil engineering projects were made as safe as possible.

Welcoming the initiative shown by the civil engineering contracting industry in establishing safety training courses throughout the country on a voluntary basis, Mr. C. Mainwaring, H.M. Superintending Inspector of Factories for Wales, said that the subject of safety in industry was really a most urgent one and must be regarded seriously by all sections of the community. He emphasised his point by quoting comparative figures of industrial accidents in Wales for the years 1959 and 1960. In 1959 there were 51 fatal accidents and 10,647 serious accidents; in 1960 the figures had risen to 61 fatal accidents and 11,794 serious accidents.

Mr. Mainwaring went on to say that, although since 1938 civil engineering works had been subject to the Factories Acts for certain purposes, no specific regulations dealing with safety had applied to those works. However, comprehensive regulations were now in draft and it would not be long before definite safety requirements would apply to civil engineering works.

Another matter of special note was that the definition of works of civil engineering had been extended recently so that a greater variety of civil engineering projects would be subject to the Factories Acts in future. He quoted as an example the fact that until one year ago road works were not covered by the Factories Acts, whereas now they were subject to these regulations.

CONTRACTORS MECHANICAL PLANT ENGINEERS

Midlands Branch Elect Officers

At the annual general meeting of the Midlands branch of the Contractors Mechanical Plant Engineers held recently, the following were elected for the ensuing year:—

Chairman, W. P. Lumley (Saville (Tractors), Ltd.); vice-chairmen, R. H. Atkinson (Turriff Construction Corpn., Ltd.), and G. H. Shaw (Robert M. Douglas (Contractors), Ltd.); hon. secretary, K. J. P. Bowyer; hon. treasurer, J. S. Bloomer; auditors, Messrs. R. W. H. Bullock and R. H. Knight.

The following were elected to the Committee: Messrs. G. C. Douglas, W. J. Graves, J. Gunn, A. Miller and M. Stuchbury.

Talking of Safety

by "DRAGEE"

AT the moment I arrived on the site I saw a man leaving the first-aid hut with a bandage round his head. Before I had stopped the car, he had climbed into the site van, with one of the charge-hands at the wheel, and was soon belting up the lane towards the local hospital as fast as the pot-holes would allow. Bill Briggs, the first-aid man, was standing at the gate.

"What happened?" I asked him.

"Had a nasty crack on the head. Something fell from a scaffold and caught him on the forehead. Not serious—probably needs a couple of stitches. I don't think he knows what hit him—and he wasn't caring much when he came here."

"You've got it all down in the Accident Book?"

He looked at me as though I'd asked if he ever cleaned his teeth. I should have known better. He beckoned me into the hut and produced the document for my inspection—or, rather, thrust it under my nose. I backed away.

"All right," I said. "I know it's all there." It was, too. Neatly entered in block capitals, right down to the diagnosis of the injury. . . . "Deep cut over left eyebrow and slight concussion." Under the heading "Cause of injury" he had entered: "The injured man was not able to give an account of the accident, and his only words were 'give me a cigarette. I'm going to no flipping hospital. My head is very sore'."

Bill Briggs pointed to the last sentence. "Of course those weren't his *exact* words," he explained.

"No, I quite understand," I replied, sympathetically. Briggs was a stickler for precise detail, and I realised how much the evasion had troubled him. In the space provided for the signature Briggs had written:

"On behalf of Mr. Shorty Summers (signed), Mr. W. Briggs, certified first-aid attendant."

"Thanks, Bill. Keep up the good work," I said.

"He wasn't fit to sign his name, but I'll get his signature when he comes back. Puts everything in order, see? Now, some lads don't like signing the book. You'd think they was signing their death warrant. I tell 'em it's for their own good—in case they want to claim on the National, but they just won't have it. So I sign per pro and on behalf of—that's legal, see? Now if you don't mind, I'd better ask his mate what happened, so's I can get my report wrote up."

Shorty's mate was an Irishman, as tall and lanky as Shorty was—well—short. When Briggs brought him into the office he removed his cap and his thick tow-like hair immediately stood on end.

"What's happened to your safety helmet?" I asked.

He scowled. "It's missing, sor," he said, ruefully. "It was pinched when me back was turned to light me pipe only last Friday. I says to the guvnor, 'Let him as has it keep it,' I says, 'for with this hair I have I'll come to no harm at all.' But it's done him no good, sor, him lying in the hospital this very minute. And me own helmet it was that did the mischief."

I stared. "Then what—look, you'd better tell me all about it."

"I'm telling you, sor. It was me own helmet that he was wearin' that put him into the hospital. He was workin' below the scaffold when he was hit."

"Did you see what hit him?"

"It was his helmet, sor. I saw it as plain as I see you standing here."

"But if he was wearing his helmet, how did it hit him?"

"I think he means he took it off and something fell on his head," Briggs suggested.

"I do not. And I'm speaking to this gentleman here," said Shorty's mate. "And he did not take it off. It was already off. Joe the scaffolder was wearin' it."

"Joe the scaffolder?" I said weakly. "Where does he come in?" Obviously there was no point in trying to hurry matters.

"He was up on the next lift of the scaffold, sor."

Briggs, determined to be helpful, put in:

"It was Joe that had the head injury last week when he banged his head on a ledger."

"So it was. And Shorty gave him the loan of me helmet the day after, him being an obliging fella. But the trouble is he has a small head on him, as you know, sor, and while he was leanin' over the platform it fell off, and that's how me pal Shorty came to get hurt, sor."

Bill Briggs got busy with his eraser and made a fresh start with the report.

"Don't make it too elaborate," I told him. "I've got all the notes I want."

The chargehand who accompanied Shorty to the hospital came into the hut and told us he was quite comfortable.

"Praise be," said Shorty's mate. "And now had I better be tellin' you where *I* got the safety helmet from? It was like this, sor. You remember Mike McGivern, him that fell into the concrete the day after his weddin'? Well, sor. . . ."

I put my notebook away.

"Thank you very much," I said. "That'll be enough for the present."

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

TRADE LITERATURE COMPETITION RESULTS

THE awards in the fourth Trade and Technical Literature Competition held by the R.I.B.A. were presented by the president, Sir William Holford, at the Building Centre, London, yesterday.

Assessors in the competition were Mr. George Grenfell Baines, O.B.E., Mr. Bruce Martin, Mr. Roger Walters, and Mr. Bryan Westwood. They report that the standard of entry was generally higher than in former years and that the improvement since the last competition was most marked.

However, they draw the attention of entrants to the importance of studying the conditions and repeat a sentence from their report on the 1959/60 competition —"We noted that good typography and good information did not always go hand in hand. When they did the result was sometimes spoiled by the bad organisation of the material provided."

The results of the competition were as follows:

Group I

Group 1a.

Certificate of Exceptional Merit—Alumin Building Components, Ltd.

Certificates of Merit—Arco Flooring, Ltd.; Armstrong Cork Co., Ltd.; Leeds Fireclay Co., Ltd.; Morris Singer Co., Ltd.; Redland Tiles, Ltd.; Truscon, Ltd., and Universal Asbestos Manufacturing Co., Ltd.

Honorable Mentions—British Plaster Board (Manf.), Ltd.; Courtney Pope (Electrical), Ltd.; Hickson's Timber Impregnation Co. (G.B.), Ltd., and Marryat and Scott, Ltd.

Group 1b.

Certificate of Merit—Gyproc Products, Ltd.

Group 1c.

Certificate of Exceptional Merit—Falk, Stadelmann and Co., Ltd.

Certificate of Merit—Universal Asbestos Manufacturing Co., Ltd.

Honorable Mentions—Adamsez, Ltd., and General Electric Co., Ltd.

Group 1d.

No awards.

Group II

Certificates of Merit—Esso Petroleum Co., Ltd.; Federation of Coated Macadam Industries; Langley London, Ltd., and Pilkington Brothers, Ltd.

£1¾ MILLION FACTORY IN 12 MONTHS

Precise planning of the construction programme and closest co-operation between contractors, architects and sub-contractors will ensure completion of a £1¾m. factory at Paisley, Scotland, within 12 months.

The contractors Holland & Hannen and Cubitts (Scotland), Ltd., have just started work on the half-million sq. ft. single-storey factory for Pressed Steel Co., Ltd., and there is also to be a three-storey section, part of a paint-mix-house. The single-storey section will house assembly shop, paint shop and trim shop for the production of bodies for the Rootes Group.

The three-storey section will be designed and constructed in reinforced concrete. The remainder of the factory will have a structural steel frame with brick external walls, vertical patent glazing, metal-deck roof and patent glazing to the monitors. Half of the foundations will be on 18in. diameter piles and the other half on normal reinforced concrete stanchion bases.

The architects are Harry W. Weedon, F.R.I.B.A., and Partners, 45-47, Calthorpe Road, Birmingham, 15, and the quantity surveyors are L. C. Wakeman and Partners, 11-12 Highfield Road, Birmingham, 15.

IN DEFENCE OF THE ALL-IN BID

THE following is a summary of the two documents issued by the Associated General Contractors of America referred to in the editorial in this issue.

SINGLE CONTRACT SYSTEM

One President of the United States kept a sign on his desk which read: "The buck stops here." That was where the final decision had to be made. Through a lifetime of experience, the President knew that in every undertaking, every project, every job, someone had to assume final responsibility.

Every businessman, every military or government official is aware of the need for a centralised authority. This need is not seriously questioned by any policy-making group in government or private enterprise.

Certainly the complex construction industry exemplifies this rule. No one seriously challenges the need for a central co-ordinator on a construction job. *Someone* must *schedule and control the work.* Through the years this role has traditionally and successfully been filled by the general contractor under the American contract method of construction. With the growing complexity of construction, the need for the general contractor to provide this centralised co-ordination has intensified.

The advantages of the Single Contract System are: (1) Responsibility is centralised, (2) lowest cost is assured, (3) completion on schedule is assured, (4) the general contractor can exercise the function of creative management, (5) quality is assured according to plans and specifications, (6) construction operations are co-ordinated for maximum efficiency, (7) a uniform labour policy can be established, (8) safety measures can be correlated, (9) the owner is protected against loss from suits, claims or other encumbrances, (10) the general contractor, when one general contract is awarded, is responsible for ethics of the industry being observed on the project and for fair treatment being received by all persons and organisations having a part in the construction.

Competitive sub-bids from mechanical specialty contractors are submitted to the general contractor and he makes his selection on the basis of the lowest bid, with due consideration to the workmanship, integrity, co-operativeness, and financial responsibility of the various subcontractors involved. However, under the flexible single contract system, the owner reserves the right to object to any subcontractor he does not approve.

If an architect or owner wanted to co-ordinate his own construction project, he would have to handle a variety of separate construction contracts. With the building unions operating in many areas, the owner or architect on many jobs may have to let a variety of separate contracts, including excavation, mechanical, electrical, plumbing, bricklaying, carpentry, concrete, structural steel, roofing, lathing, plastering, sheet metal, partitions, painting, interior decorations, and dozens of others.

The owner or architect will then be faced with delicate, complicated scheduling and—in some areas—jurisdictional problems which, if mishandled, may lead to costly delays and work stoppages.

Also, in some situations, the architect or owner would have to be licensed as a general contractor to engage in this activity.

Although the standard contract form between an owner and a member of The American Institute of Architects provides, as an option to the owner, for the separate contract form of construction, a provision is also included for an additional 4 per cent. architect's fee when this system is utilised. Architects, with rare individual exceptions, do not want to take on the job as co-ordinator.

The AIA's official Handbook the Architectural Practice (1958) includes what it describes as "a word of warning" to its members. This warning states that an architect who attempts to be the co-ordinator "will find that expense will be greatly increased and that his own burdens and responsibilities will be much greater than he might suppose." Difficulties will be "multiplied many times" and "if the separate contract system is badly administered it will result in confusion, delay, annoyance, and disappointment to the owner, and loss."

The AIA's liaison committee with the AGC has stated flatly that the use of separate contracts "leads to confusion and delay."

In 1960, the AIA stated that it will continue to co-operate with the AGC in improving and strengthening the single contract system.

Another segment of the construction industry that has great interest in the success of a construction project is the Surety Association of America. In 1960 the SAA-AGC joint committee reaffirmed the single contract method of construction with the qualified contractor having centralised responsibility. This single contract method—guaranteed by performance and payment bonds which safeguard public and private funds—results in efficiency, economy, guaranteed cost and the best possible value for the construction dollar.

One of the nation's leading mechanical specialty contractors, William P. Scott, Jr., speaking in 1960 as president of the Mechanical Contractors Association of America, said that while his personal point of view was not shared by all MCA members, "from the analysis of the jobs we performed, we decided it was of greatest importance to our company's success to be under the direct control of a reliable general contractor, who would co-ordinate not only our work, but that of the other subs, and, what is more important, finished the job on time."

Naturally the most important man in the construction industry is the owner—the man who awards and pays for the contract. This is true of federal, state and local contract-awarding authorities, as well as of individuals and companies who award construction contracts for private industry.

It is significant that in America's free enterprise system, where profit is based on sound planning and efficient operation, the single contract system of construction is the basic method of construction. Modern American businessmen cannot afford to waste dollars and jeopardize progress by experimenting with unworkable multicontract systems.

The nations responsible contract awarding authorities, representing private companies as well as all levels of government, recognise the soundness and efficiency of dealing with the general contractor as the central responsible authority.

RECOMMENDED PROCEDURE FOR RECEIVING AND HANDLING SUB-BIDS

THE intent and purpose of this plan is to create an effective and voluntary system of receiving and handling sub-bids to eliminate misunderstandings and abuses sometimes associated with these procedures. The success of this plan is dependent on the willingness and honesty of those who co-operate and in no way should it be construed or used as a means of promoting unethical or unlawful practices.

Certain unethical and unfair trade practices seriously impair the effective operation of the contract method in the public interest and must be accorded the strongest public condemnation. Among such unethical and unfair trade practices are bid shopping by prime contractors and bid peddling by sub-contractors. It is the responsibility of those in the industry to curb and eradicate such practices to the greatest extent possible.

The National Joint Co-operative Committee of The Associated General Contractors of America, Inc.—Council of Mechanical Specialty Contracting Industries, Inc., firmly believes that the industry, as represented by its recognised associations, is capable of honestly recognising these problem areas and effectively initiating remedial actions within the industry. Most of the practices considered unfair within the industry are fundamentally affected by the moral conduct of the individuals associated with the work.

To this end the Joint Committee strongly recommend the adoption by the industry and customers of construction services, of certain bidding procedures designed to curtail these improper activities, and calls upon both buyer and seller of these services to adhere to them in the public interest.

Proposed Plan

Section 1. (Code)

Provisions of the Statement of Recommended Ethical Conduct for the Construction Industry and the Code of Ethical Conduct of the AGC shall be observed with specific reference to unqualified bidders, improper disclosure of bids, and fair competition.

Section 2. (Coverage)

Bidders included are limited to the prime contractor; and to the mechanical and electrical subcontractors, hereafter referred to as "mechanical specialty contractor," who prepare and submit bids to the prime contractor to perform and be responsible for the plumbing, heating, ventilation and air conditioning, electrical and such other work normally performed by them.

Section 3. (Submission of Bids)

Mechanical specialty contractors will submit to prime contractors written proposals of intent to bid, describing the precise scope of work being bid, not less than 24 hours prior to the time established for submission of the prime bid, verifying the understanding of the work and materials and services to be supplied and performed by the specialty contractor. The price for the work may be included with the written proposal of intent or it may be telephoned or telegraphed in, and in any event it must be given to the prime contractor not later than four hours prior to the submission of the prime bid.

Section 4. (Listing Sub-Bidders)

The prime contractor will list the name of the mechanical specialty contractor whom he proposes to use in each of the major categories of mechanical specialty work on which bids are invited. In lieu of such listing he may submit a written statement that he has made an effort to secure sub-bids for the category or categories involved, setting forth that ample time was provided prior to the date of submission of bids or proposals, and that he had requested bids from not less than three responsible subcontractors, listing the names of all subcontractors for the category or categories involved from whom he had requested or received subcontract bids or proposals and further stating that he received less than two definite, complete or responsive bids for such category or categories involved as provided for in Section 3.

Section 5. (Sub-contractor Responsibility)

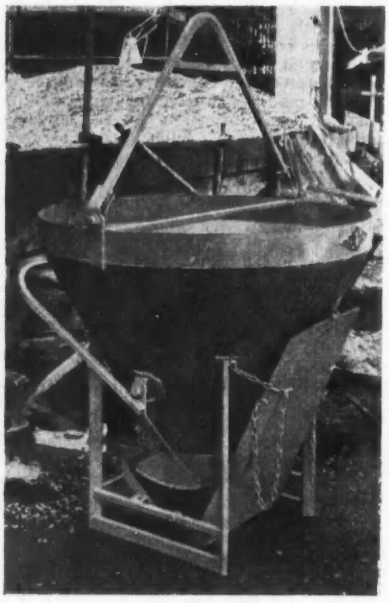
The prime contractor may require the mechanical specialty contractor to provide a bond to fulfill his proportionate share of the obligation assumed toward the owner, and may require the mechanical specialty contractors to fulfill the same naming requirements, that is, the naming of the sub-subcontractors being considered to perform various phases of the work involved. The fact that mechanical specialty contractors must fulfill this requirement shall be so noted in the invitation to the mechanical specialty contractors to bid on the work.

Trade and Company News

LIGHTWEIGHT CONCRETE SKIP HAS SIDE OR BOTTOM DISCHARGE

A CONCRETE pouring skip which incorporates a simple device to provide for either bottom or side discharge has been put into production by Audax, Central Avenue, West Molesey.

This dual-flow skip is based on a design



Audax Dual-Flow skip

developed by the Building Research Station of D.S.I.R. It has a capacity of 14 cu. ft. with a generous allowance to prevent spillage—the struck level capacity is about 17 cu. ft.—and while it is of steel plate, all-welded construction, it weighs little more than 196lb.

The height of the skip is 3ft. 8in. and the top diameter is 3ft. 10in. Ease of flow is catered for, by its conical shape which reduces to a bottom outlet of 15in. diameter. Discharge is effected by a full-width shutter operating handle which is fitted with a safety catch to prevent the shutter opening accidentally. The pouring handle, carrying handle, and supports are all of 1in. square 12 gauge rectangular steel.

For filling small columns and walls the skip is made into a side-discharge unit by releasing a small chute which is held to the side of the hopper by a double chain. The width of discharge at the bottom of the chute is 12in.

At present only the 14 cu. ft. model is being produced, but plans are in hand for the introduction of 10 cu. ft. and 7 cu. ft. models to suit 14/10 and 10/7 mixers.

SCAMMELL FIT NEW SAFETY DEVICE

Scammell Lorries, Ltd., Watford, Herts., have evolved a new safety device of benefit to drivers when coupling or uncoupling tractors and semi-trailers. Its function is to warn when the tractor's coupling gear is not fully engaged.

The Albion Chieftain CH7 TR model is being fitted with this safety warning light prominently positioned in front of the driver. A control switch, mounted on the rear chassis crossmember adjacent to the coupling hooks, operates the warning light when a ¼in. gap exists between the release rollers and the release lever cam face on the coupling gear. As the gap closes to $\frac{3}{16}$in. or less, the light goes out, but should the coupling hooks fail to engage, then the warning light remains on.

FORK LIFT ATTACHMENT SPEEDS THETFORD HOUSING CONTRACTS

A CONSIDERABLE speed-up in production, and numerous economies, have resulted following the introduction of a new type of fork lift on a contract for 250 houses at present being carried out at Thetford by W. F. Pointer.

Situated next to the new industrial estate and undertaken in co-operation with the London County Council as part of "Operation Overspill," the estate plans the erection of many more than the 250 houses at present being built. Excavations for trenches and foundations on this site are being carried out by a Dinkum excavator, and it is on the front shovel of this machine that the fork lift attachment has been fitted.

It has been found that the attachment, which is able to lift a weight of one ton from the ground level to 17ft. in height, is extremely useful for unloading lorries of timber, joinery and other materials, stacking these loads and in due course distributing them to the various points of use throughout the site.

The fork lift was developed especially for this work by Whitlock Bros., of Great Yeldham, Essex, and with minor modifications will fit all their standard shovels.

Slates are carried from stockpile to roof in one operation by fork lift

U.S. AUTOMATIC BATCHING CONTROL SYSTEM

FOR concrete and asphalt proportioning, a new automatic batching control system is being marketed in the U.S. by Fairbanks Morse and Co., manufacturing subsidiary of Fairbanks Whitney Corporation, New York.

Known as the Batchetron 600, the system employs high-speed electronic control to weigh out predetermined amounts of materials automatically. It can handle any material that can be poured, pushed or dropped into weigh hoppers, and enables preselected sequences to be repeated automatically. Special interlocks prevent incorrect sequence and stop operation immediately errors are detected.

The Batchetron employs four load cells which directly suspend the weighing hoppers. The load cells convert the pull of loaded hoppers to proportional electrical currents, which can be transmitted to a control console up to 250ft. away.

For batching concrete the operator merely sets dials on his control panel to the desired quantities of cement, sand, gravel, crushed stone and water. Having set the tare weight of hoppers, he presses the "on" button and the batching sequence takes place automatically. When the operation is completed a panel light flashes. He then presses the "open" button to discharge the mix into mixer or lorry. A "close" button sets the system up to start another sequence.

A feature is the provision of adjustable compensators that allow for weight of material in "air suspension" after feed cut-off, thus increasing accuracy during fast feeding.

EASY-TO-WORK PLASTERS

The Nobel Division of Imperial Chemical Industries have evolved a range of new plasters which are easy to work and are said to be effective on difficult surfaces such as hollow clay tile and foamed concrete blocks.

The plasters are now available in development quantities in Scotland, and in order that commercial evaluation can be extended a pilot plant in the Buxton area will come into production during the summer.

There are three products in the range. Nobel universal finishing plaster is suitable for use as a relatively low density finishing coat on all normal backings and is also recommended for use directly on well-shuttered smooth concrete and on plasterboard. Nobel dual lightweight plaster provides a single product equally suitable as a lightweight backing coat or as a lightweight single coat plaster, and Nobel special browning plaster is designed to be mixed with sand to give highly plastic backing coats for use on highly absorptive backgrounds.

"MUFFLECOVER" REDUCES DRILL NOISE

A 60 per cent. noise reduction from the pneumatic road drills without significant loss of power is claimed for the "Mufflecover" by Thor Tools, Ltd., Tynemouth, Northumberland, sole suppliers in the U.K.

The "Mufflecover", designed after extensive field tests, consists of a double jacket of soundproofing materials. The muffler is zipped over the tool which it fits without interfering with the control or handling efficiency.

Trade and Company News

DIESEL ROAD ROLLER CAN WEIGH FROM 9 TO 16 TONS

A THREE-WHEEL road roller with an unusual system of ballasting, enabling its weight to be varied between 9 and 16 tons, is to be shown at the International Construction Equipment Exhibition by Marshall, Sons and Co., Ltd., Gainsborough, Lincs.

This new Highwayman, Mark 2, has hydrostatic transmission and there is a choice of diesel power units—a water-cooled Perkins or an air-cooled Ruston. Also available is a new type of hydraulic scarifier.

Ten separate 10cwt. cast-iron ballast weights can be placed in the centre portion of the main frame enabling the net metal weight of the roller to be increased by 5 tons. The weights, positioned in units of 1 ton—two weights—may be located in either the front or rear of the compartment, allowing front and hind roll pressures to be varied.

The Dowty Dowmatic drive between the power unit and the final drive gears eliminates clutches and change speed gearbox. The transmission consists basically of a variable delivery tilting head type piston pump, driving a fixed displacement motor, the pump being driven by the prime mover, while the motor drives through a reduction gear to the rear rolls. Variation of the pump angle controls the speed and direction of rotation of the hydraulic motor, and consequently of the roller.

This hydrostatic transmission provides infinitely variable road speeds in the range 0 to 5 m.p.h. forward and reverse while, for normal rolling, the power unit is kept running at the optimum fuel consumption speed.

The two-tine hydraulic scarifier is fitted to the right hand side of the roller immediately behind the rear roll, and is carried on a 4½in. diameter steel shaft held in brackets bolted to the main frame. There is no overhang beyond the edge of the rear roll. The scarifier has variable depth control and can be operated either from the side of the roller or from the driver's seat.

The main frame is of all steel welded construction employing full-length side plates rigidly braced by cross-members. The ballast weight compartment, large capacity water tank, and rear towing attachment are integral with the main frame, and the power unit is mounted at the extreme rear of the vehicle behind the driving position.

The Road-Marshall Highwayman Mark 2

The forecarriage steel casting is welded to the main frame and carries the bearing for the front fork king pin.

Drive to each hind roll from the hydraulic motor is through a precision worm reduction gear unit and differential to spur pinions engaging in internal gear rings attached to the hind rolls. The hand brake bands act on the outside of each ring. Guards give protection to the drive and brake straps.

Front and rear rolls are of fabricated construction with the rims and side plates of rolled steel. The centre boss is made from heavy steel tubing welded to the side plates and provided with renewable brass bushes. All rolls have a plug for filling with water ballast and a removable plate for filling the rolls with sand ballast.

Power operated hydraulic steering gives control over a total of 80 degrees steering lock. Band brakes, controlled by a single hand lever which can be locked when parking, operate with servo-action directly on the driving rings attached to both hind rolls. In normal road service all braking is applied automatically through the hydrostatic system by the transmission control lever and with the lever in the central position the roller is held stationary.

The 40-gallon fuel tank, with filler spout and built-in strainer, is welded to the near side main frame. The front face of the tank is sloped giving the driver an uninterrupted view of the edge of the front roll.

An 83-gallon water tank with filler forms an integral part of the main frame below the ballast weight compartment. Water spray pipes are provided to both front and rear rolls with an independent control for each roll. A power pump feeds these pipes and by means of a two-way valve this pump can be used for filling the water supply tank. Armoured hose with foot valve and strainer is permanently connected to the pump and is carried under the rear of the roller.

A totally enclosed lockable driver's cab with toughened glass windows is fitted. The front window is arranged to open and is provided with an electric wiper, and side windows are arranged to slide and lock.

DUMPER AND HYDRAULIC LOADER IN ONE MACHINE

A SELF-LOADING dumper which has been on the West German market in recent years is to be shown for the first time in this country at the Crystal Palace Exhibiton by Construction Machinery, Ltd., Wakefield.

Lift arms supporting the loading shovel are positioned on the outside of the body, with the shovel working beyond the tailboard. To load, the shovel is lowered, filled in the usual way and lifted so that the full load can be tipped into the rear portion of the body, subsequent loads being brought progressively towards the front, until the body is filled.

The operator sits in a swivel seat and has duplicate controls. Thus he can load, swivel round and drive away without turning the vehicle.

The Wakefield dumper is a compact machine with 9ft. 3in. wheelbase, powered by a Leyland AU350 diesel engine developing 100 h.p. at 2,200 r.p.m., and fitted with a 16in. single dry plate clutch. There is constant mesh transmission with five high and five low gears, giving a total of 10 speeds forward and 10 speeds in reverse, from 2.13 m.p.h. to 32.6 m.p.h.

The loading bucket has a nominal capacity of 1 cu. yd. and is of substantial construction, with welded cutting strip and nine integral teeth. The lift arms are of heavy box section type.

The 5½ cu. yd. capacity body is all-steel, stoutly reinforced, the tailgate having its catch automatically released when the load is to be discharged. Drive is on all wheels and the two-way steering is power-assisted. Air brakes are fitted to front and rear wheels. Standard tyres are 10.00—24 14 ply.

A powerful hydraulic system is employed; large capacity double acting rams are used for the lift arms, bucket movement and dumping. Body tipping is positively controlled through a linkage.

The overall length of the machine, with bucket down, is 21ft. 2in. and, with the bucket up, 15ft. 10in. Overall width is 8ft., height without cab 7ft. 7in., and with cab 9ft. Unladen weight is 15,640lb.

NEW PLASTIC ROOFING MATERIAL

A roofing material which, it is claimed, does not crack in the sun nor "give" when new timber shrinks, has been developed by Plastics and Resins, Ltd., Vulcan Road, Bilston, Staffs.

It is a plastic paste compound, known as Polaplex, and can be applied cold either with a brush, trowel or spray gun. It is dry within a few hours. The resultant plastic covering will expand or contract according to the action of the materials beneath it, the tensile strength being about 1,000lb. p.s.i. Polaplex can also be used as a sealing or jointing compound.

SPECIAL CABLES FOR ROAD HEATING

The introduction of butyl rubber insulated N.B.R. compound sheathed heating cables, suitable for installation in roads, runways, or for floor warming applications, is announced by the Panelec Heating Division of British Insulated Callender's Cables, Ltd., 83 Saffron Hill, London, E.C.1.

The cables are all of single-core construction, comprising stranded resistive wire element insulated with Butyl rubber and sheathed with an NBR compound. These materials provide a tough and inert cable, which is electrically safe and thermally stable.

They are supplied in seven standard units, having loadings of ½, ¾, 1, 1½, 2, 3 and 4 kW rating on a 240-volt supply, and are provided with a 12ft. long factory-jointed cold lead at each end. With the exception of the smallest unit all cables are loaded at approximately 5 watts/linear foot.

NEW HARDBOARD NEEDS NO PRIMING

A light coloured hardboard, said to need no priming and to be comparable in strength with the darker grades, is now being marketed by Timber, Pulp and Board Sales, Ltd., City Wall House, Chiswell Street, London, E.C.1. Known as Karlit Ivory (Prolac), the board has a smooth surface of specially prepared fibres closely interwoven to reduce paint penetration.

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING
(See also Housing Schemes)

Accrington, Lancs.—Divisional Education Executive have approved plans for erection of new youth club. Site not yet selected. Estimated cost £15,000.

Accrington, Lancs. — B.C. recommended to approve scheme for further alterations and improvements to library. Estimated cost £4,000.

Antrim.—W. and M. Given, Waterside, Coleraine, Londonderry, are the architects for the conversion of Holywell House into a nurses' home for Holywell Hospital Management Committee. Revised sketch plans are now in hand.

Ashford, Kent.—Co. E.C. propose the provision of sanitary accommodation at the Kennington C. of E. Primary School. Estimated cost £2,000.

Aylesbury, Bucks. — B.C. have approved scheme for the re-tiling of Long Crendon School's main building. Estimated cost £927.

Ayr.—B.C. propose to erect a grandstand at Dam Park, estimated to cost over £30,000. Civil engineering work, including piling foundation, will cost £13,500.

Stevenson and Ferguson, 17 Barns Street, Ayr, are the architects for a proposed factory and offices at Heathfield for British Replin, Ltd.

Barnsley, Yorks.—Licence granted for the erection of a new public house at Bank End, Worsbrough Dale, for William Stones, Ltd., Cannon Brewery, Sheffield, 3.

B.C. recommended to apply for sanction to borrow £77,212 for erection of a school for educationally sub-normal children.

Barry, Glam. — B.C. recommended to approve outline plans for the erection of a nursery school at Old Quarry, Park Road, for C.C.

Beckenham, Kent. — Co. E.C. propose the provision of two classrooms and extension of kitchen at Highfield County Primary School. Estimated cost £20,500.

Birmingham. — Housing Committee have approved plans for a small shopping centre at Wheeler Road and Lozells Road, Newtown.

Blackburn, Lancs. — Massey's Burnley Brewery, Ltd., Bridge End, Burnley, are to erect new hotel with modern theatre over the top on the site of the Commercial Hotel.

Bolton, Lancs.—B.C. recommended to approve erection of new bowls hut, etc., Sunnyside Park, £685; extension to shelter, Haslam Park, £760; sports pavilion extension, Hulton Lane playing fields, £1,725; provision of storage accommodation, Leverhulme Park, £1,395, and erection of depots at Sunnyside Park, Oldhams Lane and Duddon Avenue.

Boston, Lincs.—Sheffield Regional Hospital Board recommended to appoint S. W. Sherwin, 4 South Square, Boston, quantity surveyor for central linen and sluice room at General Hospital, and central linen store at London Road Hospital.

Brasted, Kent. — C.C. recommended to approve scheme for the conversion of staff dwelling into additional teaching accommodation at Sundridge C. of E. Primary School. Estimated cost £1,000.

Br'dlington, Yorks.—B.C. hope to start work in October on the biggest section of Bridlington's sewerage scheme, estimated to cost £100,000.

Bristol. — City Council recommended to approve the erection of 45 lock-up garages at Maynard Road, Hartcliffe; 14 at Dunmail Road, Southmead; 36 at Satchfield Crescent, Henbury; and 12 at Bishop Manor Road, Horfield. Estimated cost £22,470.

Bromley, Kent.—C.C. recommended to apply for sanction to borrow £20,000 for the provision of additional hutted accommodation at the Technical College.

Burnley, Lancs. — B.C. recommended to approve scheme for alterations at Healey Wood Primary School. Estimated cost £4,197.

Caistor, Lincs.—Sheffield Regional Hospital Board recommended to appoint R. S. Caulton and Co., Paradise House, Paradise Street, Sheffield, 1, quantity surveyors for engineering services and associated building work for modernisation of centre block at Caistor Hospital.

Camberley, Surrey.—Co. E.C. recommended to approve scheme for adaptations, repairs and redecorations at Great Ballards, for use as Wishmore Cross Special School. Estimated cost £9,895.

Cambridge. — Great Ouse River Board preparing sketch plans for erection of new offices at Clarendon Road.

City Council to proceed with plan for a multi-deck car park with shops and filling station on the ground floor at King Street.

Cardiff.—City Council recommended to prepare outline plans for the construction of an abattoir at Timber Pond, Dumballs Road.

Cheshire.—Co. E.C. recommended to purchase land fronting Gateshead Road and Tattenhall Road, Tattenhall, as site for the proposed new county secondary school.

Chester-le-Street, Dur.—Outline application has been made to the planning authorities by the Durham Coal Board for extensions to divisional offices on Team Valley Trading Estate.

The London and Newcastle Tea Co., Ltd., are to construct large warehouse and offices at Pelaw Hill Farm. Plans submitted by Harrowsgate Holdings, Ltd., Welwyn Garden City, Herts., are under consideration.

The Caterpillar Tractor Co. Ltd., are to erect offices and medical centre. Wilkin, Hamilton and Wilkin architects 5 Woodside Terrace, Glasgow, C.3.

Chislehurst and Sidcup, Kent.—Co. E.C. propose the construction of two laboratories and a classroom to serve as a drawing office at the Cray Valley Technical School for Boys; to prepare plan for the first stage of additions and adaptations for the extension of St. Mary Cray Secondary School.

Dagenham, Essex. — B.C. recommended to approve scheme for the redevelopment of the Beacontree Heath area by the erection of a row of 20 shops with living accommodation over; six blocks of multi-storey flats and other blocks of three- and four-storey dwellings; a covered swimming pool with meeting halls; a Civil Defence centre; an office/public building block; and garages and car parking space.

Dewsbury, Yorks.—B.C. to submit to Home Office for approval, plans for new fire station which it is hoped will be built on a site off Huddersfield Road.

Darton, Yorks.—U.D.C. have approved plans for extensions to Wakefield Road Works, Staincross, for William Freeman and Co., Ltd., and for additional warehouse accommodation, Station Road, for the Shaw Carpet Co., Ltd.

Doncaster, Yorks. — Town Planning and Estates Committee have approved outline application for factory extensions in Wheatley Hall Road for Montague Burton, Ltd., Hudson Road Mills, Leeds, 9. Scheme in its initial stages.

Dover, Kent. — Co. E.C. propose the preparation of a detailed plan for the extension and modernisation of Dover Grammar School for Boys.

Dudley, Worcs.—B.C. recommended to appoint Webb and Gray, St. Jame's Road, as architects for the erection of seven shops at Russell's Hall estate; submit to M.E. for approval, sketch plan for the Holly Hall Secondary Modern School; approve amended scheme for extensions at the Public Hall. Estimated cost £5,000.

Easington, Dur.—Plans have been approved for the erection of Pentecostal Church at Sunderland Road, Horden; A social club is proposed at Durham Avenue, Horden, for the Horden R.C. Workmen's Club (Secretary, P. G. Dunn).

East Malling, Kent.—Co. E.C. propose the provision of four additional classrooms at the County Primary School. Estimated cost £20,000.

Eccles, Lancs.—B.C. recommended to approve plans for erection of a meeting house, caretaker's house and classrooms at Yew Tree House, The Polygon, Gilda Brook Road, for the Clerk of the Society of Friends, District Preparative Meeting, 6 Mount Street, Manchester, 2; erection of extensions at St. Patrick's R.C. Secondary School, Guildford Road, for the Salford R.C. Diocesan Trustees Registered Building Office, 61 Barton Arcade, Barton Square, Manchester, 2.

Edinburgh. — Government offices are to be erected on the site of the old General Post Office at Waterloo Place and on the lower slopes of Calton Hill for the Ministry of Works. Estimated cost £150,000.

Tenders are expected from nine selected contractors in the third quarter of this year for the building works for the Napier Technical College for City Council. Alex Steele, city architect; H. A. Brechin and Co., quantity surveyors, 13 Great King Street, Edinburgh, 3; Kinnear and Gordon, structural engineers, 54 Manor Place, Edinburgh, 3; Partridge, Earp and Partners, heating and ventilating engineers, 18 Great King Street, Edinburgh; and Mitchell, Dey and Lackie, electrical engineers, 34 Castle Street, Edinburgh, 2.

Farnham, Surrey.—Co. E.C. recommended to approve scheme for external works, provision of internal fittings and playing fields for the first instalment of St. Polycorps R.C. Primary School. Estimated cost £2,047.

Folkestone, Kent. — C.C. recommended to approve the provision of garage and storage accommodation at the Primary School site at Warren Road, estimated cost £2,000; and two hutted classrooms at Morehall Secondary School for Boys, £2,750.

Frome, Som.—Planning permission has been granted and tenders are about to be obtained for the erection of a motel on site at Bath Road, for Graham Lyon Motels, Ltd. Architects for the scheme are Erdi and Rabson, 14/15 Queenhithe, London, E.C.4.

Gateshead, Dur.—Factory extensions are proposed on the Team Valley trading estate, for Kavli Ltd. The architects are J. W. Taylor and Sons, St. James Buildings, Gallowgate, Newcastle-upon-Tyne.

Glenrothes, Fifes.—Development Corporation propose to erect two advance factories at Queensway industrial estate.

Harrietsham, Kent.—C.C. recommended to approve the erection of a building for indoor exercise at Harrietsham Remand Home Estimated cost £3,000.

Harrogate, Yorks.—Yorkshire Association for the Care of Cripples are to improve accommodation at St. George's House, Otley Road.

Hartley, Kent.—C.C. recommended to apply for sanction to borrow £18,553 for improvements to The Old Downs.

Hebburn, Dur.—D. Brown, 10 Lambton Road, Newcastle-upon-Tyne is the architect for new R.C. Church and Presbytery at Mill Lane.

Jarrow-on-Tyne, Dur. — Supermarket proposed in Bede Burn Road for the London and Newcastle Stores, Ltd., St. James Street, Newcastle upon Tyne. The architects are G. H. Gray and Partner, Portland Terrace, Newcastle upon Tyne.

Kidderminster, Worcs.—Co. E.C. have approved sketch plans for an E.S.N. school at Comberton.

King's Lynn, Norfolk.—B.C. recommended to approve, in principle, the provision of a slaughterhouse. Estimated cost £15,000.

B.C. have approved, in principle, scheme for the development of New Conduit Street, incorporating 14 shops and one kiosk on the ground floor with 11 three-bedroom maisonnettes above for Norwich Union Insurance Societies, Surrey Street, Norwich.

Leicester. — Sheffield Regional Hospital Board recommended to appoint S. Penn Smith, Waterloo House, 2 Hastings Street, Leicester, architect for installation of stokers, economisers and incinerator at Markfield Hospital.

Liverpool.—Allied Suppliers, Ltd., 179 City Road, London, E.C.1, to provide additional cold store and meat freezing facilities at their factory.

Luton, Beds.—W. G. Apps, 10 Pollard Street, London, N.20, is the architect for the erection of a church and community centre for the deaf and dumb, adjoining 47 Old Bedford Road for the St. Albans Diocesan Association for the Deaf and/or Dumb.

Maidstone, Kent.—C.C. recommended to apply for sanction to borrow £2,750 for the provision of additional temporary classrooms at Aylesford Secondary School.

Malden, Surrey.—Co. E.C. recommended to approve scheme for the provision of additional changing accommodation at Green Lane Playing Field. Estimated cost £2,397.

Matlock, Derbys. — Sheffield Regional Hospital Board recommended to appoint Naylor, Sale and Widdows, St. Mary's Gate, Derby, architects for builder's work for boiler replacement at Whitworth Hospital.

Middlesex.—Tenders to be invited from selected contractors for an extension to the casualty department of the Central Middlesex Hospital, Park Royal, for North West Metropolitan Regional Hospital Board.

Norwich.—City Council recommended, subject to Ministry approval, to invite tenders for the construction of a crematorium in the City Cemetery, estimated cost £31,900; approve scheme for roof repairs and electrical rewiring at Bignold Junior and Infants' School, £6,000.

City Council recommended to approve outline application for the erection of new offices and associated buildings at Martineau Lane for C.C.

Oadby, Leics.—Sheffield Regional Hospital Board recommended to appoint Pick, Everard, Keay and Gimson, 6 Millstone Lane, Leicester, architects for kitchen extensions and provision of stores at Stretton Hall.

Ormskirk, Lancs. — U.D.C to apply to Ministry for approval for alterations to Council's offices in Derby Street. Plans by Cookson and Gibbs, 34 Derby Street.

Oswestry, Salop.—B.C. recommended to grant planning permission for the erection of a club-house on the car park adjoining Victoria Road football ground for Oswestry Athletic Co., Ltd. Estimated cost £2,000.

C.C. propose the erection of a fire station at junction of Mount Road and Oakham Road.

Oxford.—City Council recommended to approve plans for the provision of public convenience at Port Meadow, Wolvercote.

Pudsey, Yorks.—B.C. have approved plans for the erection of a community centre on land behind Waterloo Junior School, Victoria Road, for Pudsey, Waterloo and Cemetery Road Estate Tenants' Association. Estimated cost £14,000.

Rhyl, Flints.—Welsh Regional Hospital Board have approved site on the Rhuddlan Road for the proposed new base hospital to serve the Clwyd and Deeside area.

Richmond, Yorks.—Golf Club to go ahead with the erection of a new clubhouse. Estimated cost £4,450.

Riverhead, Kent.—Co. E.C. propose the provision of two removable classrooms with cloakroom and sanitary accommodation at the county primary school. Estimated cost £3,750.

Rochdale, Lancs.—B.C. have approved the erection of a youth centre in association with the proposed new Matthew Moss Secondary Modern School. Estimated cost £30,000.

Rotherham, Yorks. — Corporation Planning Committee have approved factory extensions in Fitzwilliam Road for Kenyon, Son and Craven, Ltd.

Rugby, War. — Co. E.C. recommended to approve schemes for second instalment of the adaptation of the former premises of Rugby High School for Girls and adaptation of factory premises fronting Lower Hillmorton Road and Caldecott Street as additional accommodation for the East Warwickshire College of Further Education. Estimated cost £12,259 and £22,875, respectively.

Rugby, War.—Bills of quantities are being prepared for the erection of 11 shops, with a showroom and offices over, at The Almhouses site, Church Street and Market Place, for Ravenseft Properties, Ltd. L. H. Fewster and Partners, 22 Conduit Street, London, W.1, are the architects and Cyril Sweet and Partners, 37 Bedford Row, London, W.C.1, quantity surveyors for the scheme.

Rugeley, Staffs.—U.D.C. recommended to include in 1961-62 programme, scheme for extensions to the mortuary. Estimated cost £2,000.

Runcorn, Ches.—R.D.C. have approved outline application for the demolition of the former tannery at Grappenhall and erection on site of a factory, for Metro-Cutanit (Warrington), Ltd., Allen Street, Warrington, Lancs.

Royston, Herts.—Plans are being prepared by R. Porter, staff architect, for erection of the new Anchor Inn at Melbourn for Wells and Winch, Ltd. Henry King, 1 High Street, Evesham, Worcs., is the quantity surveyor for the scheme.

Salford, Lancs.—Planning Committee have approved plans for demolition of house and erection of Sunday school and church, 250 Eccles Old Road for the Trustees of the Methodist Church.

Salford, Lancs.—Harry S. Fairhurst and Son, 55 Brown Street, Manchester, 2, are the architects for the erection of new works and offices in New Bailey Street for the Manchester Evening News, Ltd., 3 Cross Street, Manchester.

Seal, Kent.—C.C. recommended to approve scheme for the conversion of staff dwelling into additional teaching accommodation at St. Lawrence C. of E. Primary School. Estimated cost £1,000.

Skegness, Lincs. — Planning permission granted for the erection of a factory at the industrial site for Stiebel and Co., Ltd., Esco House, Stoney Street, Nottingham.

Sleaford, Lincs.—Sheffield Regional Hospital Board recommended to appoint Myles-White and Associates, White Hart Chambers, 16 White Hart Street, Mansfield, architects, and R. S. Caulton and Co., Paradise House, Paradise Street, Sheffield, 1, quantity surveyors for modernisation of wards at Rauceby Hospital.

Southport, Lancs. — B.C. recommended to approve revised site plan for the proposed new Our Lady of Lourdes R.C. Secondary Modern School.

B.C. recommended to appoint Matthews and Mumby, Ltd., Oldham Street, Denby, Manchester, consulting engineers, and Cruickshank and Seward, 196 Deansgate, Manchester, 3, architects for erection of grandstand in Victoria Park.

B.C. recommended to approve plans for the erection of public conveniences at junction of Liverpool Road and Shaws Road.

Stockton-on-Tees, Dur.—R.D.C. have approved plans in principle for the erection of licensed premises at Bishopsgarth for J. Nimmo and Sons, Ltd., Castle Eden.

Stratford-upon-Avon, War. — B.C. recommended to approve in principle outline application for construction of new rehearsal hall at The Paddock, Southern Lane, for the Trustees of the Royal Shakespeare Theatre.

Swindon, Wilts.—B.C. recommended to appoint Bare, Leaning and Bare, 32 Wood Street, as quantity surveyors, for erection of a factory for use by Sealey Engineering Co., Ltd., at the industrial estate; invite tenders from selected contractors for improvements to the Pinehurst branch library. Estimated cost £3,500.

Tenby, Pembs.—B.C. have approved in principle scheme incorporating a multi-storey car park, shops, maisonnettes, a cafeteria and an all-purpose hall at Upper Park Road. Estimated cost £275,000.

Teynham, Kent.—Co. E.C. propose the provision of three classrooms in removable construction at the C. of E. primary school. Estimated cost £4,250.

Twickenham, Middx. — Ministry have granted provisional planning approval for the erection of a new secondary school at Orleans Park for C.C.

Walsall, Staffs.—B.C. have approved sketch plan for new drill and hose drying tower at Bloxwich Fire Station and appointed Collins and Britton, 39 Bennetts Hill, Birmingham, 2, as quantity surveyors for the scheme; sanction to borrow £11,433 for the erection of two science laboratories at the Richard C. Thomas County Secondary School.

Ware, Herts.—U.D.C. have approved in principle scheme for improvements at Ware swimming pool buildings.

Warminster, Wilts.—Co. E.C. to submit to M.E. for approval scheme for the provision of additional accommodation at the youth centre. Estimated cost £3,000.

Warrington, Lancs.—Work to commence in the near future on the erection of new recreational hall for Penketh and Sankey Boys' Club. Estimated cost £8,000.

Washington, Dur.—F. B. Hindmarsh and Partners, 107 Northumberland Street, Newcastle upon Tyne, estate surveyors, etc., have prepared scheme for industrial developments south of Usworth Station Road.

Erection of an R.C. Church and Presbytery on the Coach Road Estate proposed for the Church of Our Lady Immaculate. The architect is A. Rossi, 88 Medomsley Road, Consett.

Wellingborough, Northants.—Ministry have approved in principle U.D.C.'s proposals for the conversion of Hattondale into accommodation for old people. Estimated cost £10,500.

West Hartlepool, Dur.—B.C. have approved the erection of an additional science laboratory at Brierton Modern School for Girls. Plans to be prepared by Bell and Spouse, 10 Scarborough Street, West Hartlepool.

Wisbech, I. of E.—Peterborough and District Co-operative Society, Ltd., Park Road, Peterborough, to erect a departmental store at Wisbech.

Worcester.—Licensing Justices have approved plans for remodelling the Pack Horse Hotel by the provision of two restaurants and two extra bars for Hort's Restaurant, Ltd., 49 Broad Street, Bristol, 1.

Worcestershire.—C.C. have approved plan to convert the cellars of Hindlip Hall the county police headquarters into the Worcestershire Group Control Centre. Estimated cost £6,000.

Worksop, Notts.—M.E. have approved plans and bills of quantities being prepared, prior to tendering, for the erection of a new R.C. Secondary Modern School at Netherton Road for the B.C. Diocesan Trustees. Architects for the scheme are Sandy and Norris, 134 Newport Road, Stafford. Estimated cost £70,000.

DEMOLITION

Erith, Kent.—Co. E.C. have approved for inclusion in the current estimates, scheme for the demolition of Picardy Secondary School for Boys and re-routing of drainage for the erection of buildings for use by Picardy Secondary School for Girls, £6,000.

ELECTRICAL

Sheffield.—Regional Hospital Board recommended to appoint J. D. Maidment, Pembroke House, Palmerston Road, architect for installation of lift in Cliff Ward at Nether Edge Hospital.

Walsall, Staffs.—B.C. recommended to approve scheme for re-wiring of the electrical installation at the George Hotel. Estimated cost £8,650.

West Hartlepool, Dur.—Cairns and Byles, 8 Osborne Road, Newcastle upon Tyne have been appointed consulting engineers by the B.C. for renewing the electrical installation at the Oxford Street Junior and Infant Schools.

GAS AND WATER SUPPLY

Newark, Notts.—B.C. to submit to Ministry for approval, second stage of the water development scheme to include a new 18in. trunk main from Farnsfield pumping station direct to Kelham reservoir and the installation of additional pumping gear to enable supplies to be improved to Averham Park, Flash Farm and the Winthorpe-Langford-Collingham areas. Estimated cost £136,000.

Warminster and Westbury, Wilts.—West Wiltshire Water Board to invite tenders for re-laying the trunk main from Upton Scudamore to Old Dilton. Estimated cost £14,000.

Wiltshire. — West Wiltshire Water Board have approved in principle and are to submit to Ministry for approval a seven-year comprehensive scheme to meet the water requirements of Melksham, Trowbridge, Warminster and Westbury urban districts, the Warminster and Westbury rural district, and the parishes of Hilperton, Melksham Without, Semington and Staverton in the Bradford and Melksham rural district and apply for sanction to borrow £234,350 for the first phase of the scheme. Total estimated cost £1,777,500.

Worksop, Notts.—B.C. to apply to Ministry for authority to invite tenders for the construction of a new reservoir and water tower. Estimated cost £100,000.

HEATING AND VENTILATING

Beckenham Kent.—C.C. recommended to approve the inclusion in the current estimates of scheme for the renewal and improvement of the heating installation at Balgowan County Primary School, £10,000.

Mansfield, Notts. — Sheffield Regional Hospital Board recommended to appoint A. E. Thornton - Firkin and Partners, Masons Chambers, Low Pavement, Chesterfield, quantity surveyors for replacement of mechanical services at Mansfield and District General Hospital.

Swindon, Wilts.—B.C. recommended to approve in principle, the installation of hot water systems in 460 pre-war dwellings and prepare scheme for the first stage comprising 41 dwellings.

HOUSING SCHEMES

Aylesbury, Bucks. — B.C. have acquired land at Dunsham Lane for housing development.

Barnet, Herts.—McManus and Co., Ltd., 54 Station Road, New Barnet, propose the erection of 83 dwellings on Bells Hill housing estate.

Batley, Yorks. — B.C. have applied for sanction to borrow £110,000 for erection of 69 dwellings in connection with the first stage of the Batley Carr redevelopment scheme.

Birmingham. — Housing Committee have approved plans for erection of 30 houses at Edgewood Road to complete the Rednal House estate, Longbridge.

Blairgowrie and Rattray, Perths.—Dean of Guild Court have approved 24 flats in two blocks in the William Street redevelopment area of B.C.

Bootle, Lancs.—B.C. to apply for sanction to borrow £96,531 for the erection of six shops and 34 maisonnettes on the Park Lane estate at Netherton.

Cardiff.—City Council recommended to submit to Ministry for approval, layout plans for Trowbridge Road housing site.

Darlington, Dur.—R.D.C. have approved the erection of 16 aged persons' bungalows and six or eight houses at Aycliffe; approved alternative layouts for the final instalment of the Highside estate development at Heighington providing for four aged persons' bungalows, six houses and 12 garages. Architect to prepare detailed drawings.

Dudley, Worcs.—B.C. recommended to negotiate with Tomlinson Bros., Ltd., and Eadie and Co., Ltd., for the erection of a further 502 houses at Russell's Hall estate and with Percy Cox (Builders), Ltd., for bungalows at the Holly Street site, Holly Hall; prepare layout for provision of 3-bedroom dwellings at the Bowling Green Road site; approve plans and authorise A. T. Butler and Partners, 31 Priory Street, the architects, to prepare working drawings for two blocks of 5-storey flats and maisonnettes (54 units) at The Bull-ring, Stourbridge Road.

Dumfries.—B.C. propose to replace 24 prefabricated houses in the Priory Road, Margaret Walk and Elizabeth Walk area. The first stage of the work will include 44 three-apartment houses.

Durham.—R.D.C. Housing Architect to prepare plans for the erection of 181 houses in seven areas, during the current year; Wilkinson Brothers (Builders) Ltd., 60 West Street, Gateshead are to erect houses on 1½ acres of land at Kepier Farm, Gilesgate Moor.

Fareham, Hants. — U.D.C. to re-submit to planning authority for approval, layout for 600 dwellings at West End estate.

Glasgow.—Corporation Housing Department have received planning permission for two four-storey blocks of 126 houses of various types in the Adelphi Street, Commercial Road, Ballater Street and Waddell Street redevelopment area.

Kirkham, Lancs.—U.D.C. have approved scheme for the erection of old people's bungalows in the town. Surveyor to prepare plans.

Lancaster.—R.D.C. have approved, subject to planning approval, scheme for the erection of six old people's bungalows on land at the side of Slyne Parish Church.

Ludlow, Salop.—Borough Architect to prepare scheme for six or seven houses (for sale) at Steventon New Road.

Lymm, Ches.—U.D.C. propose the erection of 28 houses at Sandy Lane during 1961/62.

Newcastle, Staffs. — R.D.C. have approved layout for 64 dwellings and 41 garages at Wood Lane.

Newcastle - under - Lyme, Staffs. — B.C. propose the erection of 304 houses on the Thistleberry Avenue estate; 20 flats in Church Street, Silverdale; 12 old people's bungalows at Rogers Avenue, Cross Heath; 29 houses under the old people's welfare scheme at Cross Heath; and six houses at Cross Heath.

Norwich.—City Council recommended to approve scheme for three 11-storey blocks of flats and five blocks of maisonnettes, providing 198 homes, in the King Street/Ber Street redevelopment area. Estimated cost £621,000.

Romford, Essex.—George Wimpey and Co., Ltd., have purchased land at Chigwell Row on behalf of the incumbent of All Saints Church, Chigwell. Planning permission has been granted for housing development.

Rotherham, Yorks.—B.C. recommended to approve the erection of flats, maisonnettes, an aged people's hostel and 137 garages at the junction of Herringthorpe Valley Road and Laudsdale Road.

Rotherham, Yorks.—R.D.C. have approved housing scheme at Treeton.

Sedgley, Staffs. — U.D.C. to apply for sanction to borrow £135,000 for the purchase of land at Sedgley Hall Farm for housing purposes.

Southport, Lancs.—Borough Architect to be instructed to prepare drawings, specifications and bills of quantities, and invite tenders for the erection of two blocks of single-room flatlets for aged persons, comprising a total of 26 flatlets, with provision for one recreation room and one warden's flat, on land on the north-westerly side of Threlfalls Lane.

Thingoe, Suffolk.—R.D.C. to erect 17 houses with garages at Conyers Green, Great Barton.

Totnes, Devon.—B.C. to submit to Ministry for approval, layout plans for the erection of 30 bungalows (four for old people) on land adjoining Culverdale estate.

Wednesbury, Staffs.—B.C. recommended to approve and submit to Ministry for approval, report on the proposed redevelopment of Cross Street clearance area. Jackson and Edmonds, 116 Colmore Row, Birmingham, 3, are the architects for the scheme.

West Lancs.—R.D.C. propose the erection of old people's bungalows in Hillcock Lane, Scarisbrick; to apply for sanction to borrow £1,397 for purchase of land at Tabby Nook Lane, Mere Brow, Tarleton, for housing.

West Penwith, Corn.—R.D.C. propose the erection of 25 dwellings in the parishes of Hayle, Marazion, St. Buryan and St. Levan during 1961-62.

Woodbridge, Suffolk.—U.D.C. to erect 12 houses (for sale) at Portland Crescent.

Worsborough, Yorks. — U.D.C. to spend £17,121 on improvements to 30 houses in Charles Street and George Street.

PLAYING FIELDS, PARKS, ETC.

Belfast.—Parks and Cemeteries Committee propose the redevelopment of part of Victoria Park. Estimated cost £26,000.

Coleraine, Londonderry.—R.D.C. propose to raise the level of the Castlerock playing field by 2ft.

Coulsdon, Surrey.—Co. E.C. recommended to approve scheme for the clearance, preparation and layout of playing fields at Riddlesdown County Secondary School. Estimated cost £1,735.

Felling, Dur.—U.D.C. have submitted to the Ministry £15,000 scheme for playing fields near Albion Street, Windy Nook.

Maidstone, Kent.—C.C. recommended to approve scheme for the first stage of the provision of civil defence training facilities at the Military Training Grounds at Mereworth Woods. Estimated cost £2,765.

Tunbridge Wells, Kent.—C.C. recommended to apply for sanction to borrow £3,600 for the conditioning of playing field at Sandown Court Secondary School.

RIVER AND FLOOD PREVENTION WORKS

Herefordshire. — Wye River Board have submitted to Ministry, for approval, scheme for the realignment and remodelling of the River Lugg from Eaton Bridge to the Poplands. Estimated cost £45,000.

Norfolk. — Great Ouse River Board have approved in principle, plan to reorganise the drainage of the Nar Valley area including the construction of a new pumping station at the junction of the Nar and the Little River. Estimated cost £40,000.

Norwich.—City Engineer preparing scheme and will invite tenders in due course for sheet piling work along Riverside Road and on part of Riverside. Estimated cost £60,000.

Land Drainage Committee of the East Suffolk and Norfolk Drainage Board have submitted to Ministry for approval and grant aid, schemes for raising the level of the wall from Hardley Staithe to Langley Pump and steel piling from Blands Pump to Acle Boat Dyke. Estimated cost £4,866 and £7,862, respectively.

Worcestershire.—C.C. recommended to approve scheme for the construction of a block-stone wall to protect part of the Teme bank below Old Knightsford Bridge, Knightwick, from further erosion. Estimated cost £7,500.

ROADS, BRIDGES AND SITE WORKS

Batley, Yorks.—M.T. have approved expenditure of £12,572 on the Liverpool-Leeds-Hull trunk road, for B.C.; £10,385 is for special resurfacing and super-elevation of the road from the Smithies junction for a length of 460yd. towards White Lee.

Batley Divisional Education Executive have approved scheme for making-up roadway along the frontage of Manor Fields Infants' School. Estimated cost £2,500.

Birkenhead, Ches.—M.T. have approved for grant aid scheme for improving Chester Street and New Chester Road, the main thoroughfare for traffic between main entrance of the Tunnel at King's Square and Chester and North Wales, for B.C. Estimated cost £750,000.

Bolton, Lancs.—B.C. recommended to apply for sanction to borrow £5,550 for reconstruction of Coronation Street and £40,230 for Thynne Street improvement.

Bridge-Blean, Kent.—Co. E.C. propose the construction of a layby on the A.290 at the exit from the County Primary School. Estimated cost £1,825.

Bristol. — City Engineer to prepare plans and invite tenders for the reconstruction of Marsh Bridge, Avon Street, over the Feeder Canal, and the widening of the approaches Estimated cost £86,000.

Burnley, Lancs.—B.C. have approved scheme for acquisition of lands and premises and construction of the part re-alignment of Bridge Street (including the altering of services). Estimated cost £18,400.

Burnley, Lancs.—B.C. to apply to M.T. for a grant towards the cost of the second stage of the inner ring road from Grimshaw Street to Manchester Road including a flyover bridge across the canal at Finsley Gate. Estimated cost of scheme £621,000.

Cambridgeshire. — C.C. recommended to approve, subject to grant aid, schemes for straightening of a sharp bend in the Cambridge-Fulbourn Road, east of the Robin Hood crossroads and re-alignment of the Hattons Bar Road at Longstanton. Estimated cost £15,500 and £9,940 respectively.

Cardiff.—City Council recommended to approve the making up of Wern Goch Road, estimated cost £1,400; provision of a lay-by at Burnham Avenue, £845.

Chesterfield, Derbys.—B.C. have approved plan for the provision of a town airport (with two runways) for light aircraft and helicopters.

Darlaston, Staffs.—U.D.C. have prepared plans for the reconstruction of Horton Street.

Eccles, Lancs. — B.C. recommended to approve in principle, and instruct Borough Surveyor to proceed with preparation of a detailed scheme for the construction of the proposed industrial road running between the Lane End area and Barton Lane, via Strand Street, Silk Street, King Street and Irwell Place.

Hemel Hempstead, Herts.—B.C. propose, subject to Ministry approval, the provision of a car park at land off Barnfield.

Huntingdonshire. — County Surveyor to prepare scheme for improvements to Nuns Bridge between Huntingdon and Brampton.

Hythe, Kent.—C.C. recommended to approve the provision of car park, etc., at St. Leonard's Secondary School for Girls. Estimated cost £2,180.

Lowestoft, Suffolk. — B.C. recommended to approve plans for making-up Witney Road and part of Links Road.

Newcastle-under-Lyme, Staffs.—B.C. recommended to approve scheme for the provision of 130 additional car parking spaces to the east of Goose Street. Estimated cost £1,500.

Perth.—City Council have authorised the borrowing of £56,231 for capital expenditure on various schemes, including £39,300 for the road resurfacing programme for 1961/62; £7,736 for garage sites, footpaths and street lighting in Letham's fourth development; £3,500 for the erection of conveniences on the South Inch; and £2,850 for additional cost of providing temporary shops and convenience at Leonard Street.

Portsmouth, Hants.—City Council recommended to approve the provision of an access road to part of old sewage works, Cosham. Estimated cost £1,000.

Riverhead, Kent. — Co. E.C. propose extension of playground at the county primary school, including the demolition of the air-raid shelter. Estimated cost £1,000.

Rowley Regis, Staffs.—B.C. recommended to approve scheme for re-laying the kerb, channel and footpath and the provision of a grass verge between Penncricket Lane and Titford Lane, during 1961-62. Estimated cost £2,000.

Rutland.—C.C. to submit to the Divisional Road Engineer for approval and grant aid following schemes: Stamford-Morcott road, proposed cross-road improvement, £1,600; Oakham-Kettering road, elimination of "S" bend one mile south of Stoke Dry cross-roads, £9,600; Oakham-Stamford road, elimination of blind bend in Whitwell, £3,000; Melton Mowbray - Whissendine - Langham road sight line improvement, £1,000; Preston-Wing-Morcott road, sight line improvement at junction with Pilton road, £500.

Salford, Lancs.—City Council to apply for sanction to borrow £60,000 for resurfacing of various classified roads in 1961-62.

Sunderland, Dur.—B.C. recommended to approve the construction of a link road between Hylton Red House estate and Town End Farm estate. Estimated cost £24,264.

Corporation Highways Committee have approved scheme for widening and reconstruction of Coronation Street between Norfolk Street and George Street. Estimated cost £22,781.

Ulverston, Lancs.—M.T. have made a grant towards the Lancs. C.C's. £4,552 scheme for road improvements at High Ground on the Torver-Coniston Road.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Crewe, Ches.—B.C. to submit to Ministry for approval, scheme for the construction of new sewage disposal works at Brayne Weir Farm, Worleston, and incidental main drainage works to serve the Coppenhall and various other areas. Estimated cost £1,339,100.

Dorking, Surrey.—U.D.C. recommended to appoint D. Balfour and Sons, 131 Victoria Street, London, S.W.1, as consulting engineers to prepare detailed plans and sections to design stage for submission to Ministry for approval in principle for the main drainage and surface water drainage of the Box Hill area.

Forehoe and Henstead, Norfolk.—R.D.C. to apply to Ministry for permission to proceed with the final section of the Costessey sewerage scheme. Estimated cost £208,360.

Freebridge Lynn, Norfolk. — R.D.C. to submit to Ministry, for approval, sewerage scheme for Grimston.

Maidstone, Kent.—C.C. recommended to approve scheme for the construction of additional surface water drainage to alleviate flooding at Linton Cornwallis' Secondary School. Estimated cost £3,400.

Thingoe, Suffolk.—R.D.C. to apply for sanction to borrow £21,000 and £16,000, respectively, for sewerage schemes for Hopton and Hepworth.

Wellingborough, Northants. — R.D.C. preparing a sewerage scheme for properties in Wilby Vale.

Westbury, Wilts.—U.D.C. recommended to acquire land adjacent to sewage disposal works and prepare plans for construction of new works.

STREET LIGHTING

Barrow-in-Furness, Lancs. — B.C. recommended to apply for sanction to borrow £7,950 for conversion from gas to electricity an area bordered by Friars Lane, Salthouse Road, Brook Street and Durham Street.

Barry, Glam.—B.C. recommended to apply for sanction to borrow £5,000 for stage two of the class B street lighting improvement scheme.

Keighley, Yorks.—B.C. recommended to apply for sanction to borrow £16,500 for street lighting conversion in an area between South Street and North Beck.

Saltash, Corn. — B.C. recommended to approve scheme and, subject to Ministry approval, invite tenders for the installation of group A sodium lighting at North Road, New Road and Liskeard Road.

Solihull, War.—B.C. have approved scheme for improved street lighting in Prospect Lane. Estimated cost £1,500.

Sunderland, Dur.—B.C. recommended to approve street lighting improvements in various parts of the town at a cost of £21,000

Swindon, Wilts.—B.C. recommended to approve scheme for group B lighting in Eastcott Hill, Goddard Avenue and Westlecot Road. Estimated cost £2,763.

Wakefield, Yorks. — City Council recommended to approve street lighting improvement schemes, first scheme to cover the erection of 1,089 concrete columns 15ft. high, provides for improved lighting in the Lupset, Eastmoor, Flanshaw, Portobello, Batley Road and Darnley estates, Woodthorpe Grove, St. John's Mount, Milnthorpe Crescent, Dunbar Street, Arlington Street, Belgrave Mount, Milnthorpe Lane and Long Causeway. Estimated cost £26,500.

Second scheme is for the relighting of Ings Road and Dewsbury Road from Waterton Road to the city boundary, £5,500.

CONTRACTS

*Full details of the Contracts marked * will be found in our Advertisement Columns.*

BUILDING AND DECORATING
(See also Housing Schemes)

Aycliffe, Dur. — Contract 213, erection of supermarket for Development Corporation, which consists of the erection of a two-storey supermarket approximately 103ft. long, 60ft. wide and 30ft. high. The structure comprises brick external walls, specialist precast concrete first floor and supporting columns, and specialist timber roof. Applications to A. V. Williams, general manager, Churchill House, Newton Aycliffe, near Darlington, by May 29. Deposit £2 2s.

Bangor, Down.—Supply, and erection of five detached precast concrete garages (internal dimensions to be 16ft. 0in. x 9ft. 0in. minimum) and ancillary works at Churchill estate, for B.C. Documents from the Borough Surveyor, Town Hall, The Castle, Bangor. Tenders by June 13.

Bath.—Erection of the second instalment of a new infants' school at Twerton estate for City Council, comprising three further classrooms, assembly and dining hall, kitchen block and staff rooms, with heating chamber, site works, etc. Applications to Paul K. Pope, architect, 18 Brock Street, Bath, by May 27. Deposit £2 2s., cheque payable to Corporation.

Blofield and Flegg, Norfolk.—Erection of public conveniences at Thorpe St. Andrew, for R.D.C. Documents from the department of the Engineer and Surveyor, Council Offices, Norwich. Deposit £2 2s., cheques payable to R.D.C. Tenders by June 5.

Bolton, Lancs.—Painting of Heaton Bridge, Beaumont Road, for B.C. Documents from Borough Engineer, Town Hall, Bolton. Tenders by June 5.

Bournemouth, Hants.—Taking up and re-laying hardwood block flooring to three classrooms at St. Walburgas School, Malvern Road, two classrooms at Moordown St. John's School, Vicarage Road, and taking up and re-laying hardwood strip flooring in the gymnasium at Boscombe Secondary School, Ashley Road, for B.C. Documents from the Borough Architect's Office, Room 106, Town Hall, Bournemouth. Deposit £1 1s. Tenders by June 10.

Bridgnorth, Salop.—External painting of houses as follows, for B.C.: Group A, 55 at The Grove estate; group B, 51 at the Sydney Cottage estate. Documents from the Borough Surveyor, College House, Bridgnorth. Tenders by May 30.

Cowes, I. o. W.—External painting of 48 houses on the Newport Road-Mill Hill Road estate, West Cowes, for U.D.C. Contractors may tender for either the whole or either half the contract (20 or 28 houses). Documents from the Surveyor's Department, Northwood House, Cowes. Deposit £2 2s. Tenders by June 5.

Dover, Kent. — External painting and the carrying out of contingent works to the following one hundred houses, for R.D.C.: East Langdon, 6; Lydden, 4; Temple Ewell with River, 86; Kingsdown, 4. Tenders may be submitted for one or more groups of houses. Documents from the Council's Surveyor and Senior Public Health Inspector, Council Offices, Temple Ewell, near Dover. Tenders by June 1.

Droitwich, Worcs.—Building 32 bathrooms, etc., to houses on three sites, for B.C. Applications to Graham L. Robinson, borough engineer and surveyor, Town Hall, Droitwich, by May 31. Deposit £2 2s.

East Riding.—Provision of bathrooms to six houses on the small holdings estate at Wilsthorpe, near Bridlington, for C.C. Documents from the County Land Agent, County Hall, Beverley. Tenders by June 7.

Exeter.—Erection of combined mess room, store, and potting shed, at Belle Isle Nursery, for City Council. Documents from John Brierley, city engineer and surveyor, Municipal Offices, 7 Southernhay West, Exeter. Deposit £2 2s. Tenders by May 31.

Herefordshire.—Certain internal painting works at the Ross Cottage hospital, for Hospital Management Committee. Documents from A. D. Edmunds, group secretary, Victoria House, Eign Street, Hereford. Tenders by May 31.

Inverness-shire. — Following for C.C.: (a) Alterations and additions to Bernera J.S. School, Island of Harris, comprising concrete and brick, carpenter and joiner, plumber and drainage, plaster and cement, and painter works; (b) additions to Northton P. School, Island of Harris, comprising concrete, carpenter, plumber, painter, and electrical works; (c) erection of garage at nurse's house, Manish, comprising carpenter and concrete works. Applications to the County Architect, The Castle, Inverness, by May 31.

Isle of Man.—Erection of a waiting hall at Douglas Harbour for Harbour Board (which will form part of new passenger reception buildings to be erected at Douglas Harbour) and demolitions in connection with the existing buildings. Documents from the office of Davidson, Marsh and Co., and T. H. Kennaugh, architects, 16 Athol Street, Douglas. Deposit £2 2s. Tenders by June 5.

Londonderry.—Internal redecoration to be carried out in Clondermot Intermediate School, during July and August, 1961, for B.C. Documents from the Education Office, Brooke Park, Londonderry. Deposit £2 2s. Tenders by June 1.

***Luton, Beds.**—Various works to 18 houses for B.C. Deposit £2 2s. Tenders by June 6.

***Manchester.** — Alterations to Didsbury library for City Council. Tenders by June 14.

Manchester.—Erection of the northern area fire station, Blackley, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by June 7.

Manchester.—Following for City Council: (a) Erection of private street paviors workshop, college and building, Deansgate; (b) alterations and construction of an isolation block at Soss Moss Special School, Cheshire. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by June 7.

Mayo, Eire.—Construction of a factory complete with site development works on a site, the property of Westport Textiles, Ltd., at Westport, Co. Mayo. The factory is to be of single-storey construction of total floor area about 70,500 sq. ft. and the contract work includes the construction of necessary water mains, sewers, drains, roads, paths and margins and other ancillary site development. Documents from Padraig Mulcahy, quantity surveyor, 4 Northbrook Road, Leeson Park, Dublin. Deposit £52 10s. Plans also seen at the office of Patrick J. Tobin, consulting engineer, 22 Eyre Square, Galway. Tenders by June 9.

Mere and Tisbury, Wilts. — Modernisation and repair of 80 houses, for R.D.C. The contract is spread over 12 separate sites, and the contractor may tender for the whole or any number of sites. Applications to the Clerk of the Council, Council Offices, Mere, Warminster, Wilts. Deposit £2 2s. Tenders by June 14.

Morecambe and Heysham, Lancs.—Erection of public conveniences adjoining Heysham Library, Haysham Road, for B.C. Documents from the office of the Borough Engineer and Surveyor, Council Offices, Morecambe. Deposit £2. Tenders by June 5.

Newmarket, Suffolk.—Exterior painting and minor repairs to 10 flats in Manderston Road, for U.D.C. Documents from P. D. Lees, architect, Council Offices, Severals House, Newmarket. Tenders by May 31.

Northern Ireland.—Construction and completion of a factory extension at Lisnaskea for English Sewing Cotton Co., Ltd., for Ministry of Commerce. Documents from the Ministry of Commerce, Room 30B, Chichester House, 64 Chichester Street, Belfast 1. Deposit £3. Plans also seen at the local office of the Ministry of Labour and National Insurance, Browne Square, Enniskillen. Tenders by June 2.

Old Fletton, Hunts.—External painting of 127 houses, divided into three groups, for U.D.C. Separate tenders will be received in respect of any or all groups. Documents from the Surveyor, Council Offices, Old Fletton. Tenders by June 3.

Penybont, Glam.—Construction of pavilions on the adult playing fields as follows, for R.D.C.: (a) Llangynwyd; (b) Bryntirion; (c) Aberkenfig; and (d) North Cornelly. Documents from the office of the Engineer and Surveyor, Penybont Offices, Coity Road, Bridgend. Deposit £3 3s. each. Tenders by June 1.

Potters Bar, Middx.—External redecoration of 116 houses in Cranborne Crescent, for U.D.C. Documents from the Engineer and Surveyor, Wyllyotts Manor, Darkes Lane, Potters Bar. Deposit £2. Tenders by June 2.

Rutland.—Internal decoration at Oakham County Primary School, Burley Road, Oakham, for C.C., consisting of the seven classroom school, assembly hall, dining recess, kitchens and all offices, is to be carried out within the period of the school holidays, i.e. July 24th to September 9th, 1961. Documents from the County Architect, County Offices, Catmose, Oakham. Tenders by May 31.

***Reigate, Surrey.**—Sixty-four brick garages, for B.C. Deposit £2 2s. Tenders by June 9.

***Rickmansworth, Herts.**—External painting of houses for U.D.C. Deposit £2 2s. Tenders by May 29.

Salisbury and Wilton, Wilts.—Redecorating externally and carrying out the necessary repairs in connection therewith at the following dwellings, for R.D.C.: Contract 1 (29 houses): 3-6 Drove Close, Coombe Bissett; 1-12 Meadow View, Bishopstone; 1-4 and 9-13 Knighton Road, Broad Chalke; 5-8 Shepherds Croft, Bowerchalke. Contract 2 (28 houses): 1-8 Jubilee Terrace, South Newton; 1-4 South Street, Wishford; 1-12 The Glebe, Steeple Langford; 5-6 and 7-8 Hillside, Burcombe. Contract 3 (20 houses): 1-6 Bankside, West Grimstead; 1-6 Gunville Hill, Winterslow; 1-4 The Chestnuts, East Grimstead; 1-4 The Green, Pitton. Contract 4 (20 houses): 1-8 Brookside, Langford; 1-4 School Lane, Nomansland; 65-70 and 71-72 Moot Close, Downton. Documents from the Surveyor, 26 Endless Street, Salisbury. Tenders by June 5.

Southend-on-Sea, Essex.—Civic Centre, 16-storey office block, contract 3, for B.C. The reinforced concrete frame and external cladding contracts to this building of about 140,000 sq. ft. are nearing conclusion and contract 3 comprises the completion of the building and includes all internal finishings to floors, walls and ceilings, demountable partitions, engineering and plumbing services, lifts, external cladding of marble and slate and windows to floors 2 and 3 and works incidental thereto. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea, by June 2, accompanied by details of similar works previously undertaken and names of architects from whom references may be obtained.

Skegness, Lincs.—Erection of a steel-framed single-storey factory, with brick-built office accommodation, having a total floor area of approximately 13,000 sq. ft., on the industrial estate, for U.D.C. Applications to Henry J. Mein, 26 Clarendon Street, Nottingham. Deposit £3 3s., cheque. Plans also seen at the office of the Surveyor, Town Hall, Skegness. Tenders by June 14.

Warwickshire.—Painting work at the following schools for Nuneaton Committee for Education: External — Higham Lane High School; Higham Lane County Junior and Infants' School; Stockingford County School, timber classroom block; Swinnerton High School H.O.R.S.A. block; Attleborough

County School H.O.R.S.A. block; Stockingford School meals kitchen; Manor Park Grammar School, temporary classrooms. Part internal—Manor Park Grammar School. Internal—Attleborough County School; Camp Hill Junior School; Galley Common County School; Red Deeps Special School; Stockingford Nursery School; St. Joseph's R.C. Infants' School; Alderman Smith School kitchen; Arbury High School scullery; Attleborough County School scullery; Stockingford School clinic; Stockingford School meals kitchen. Documents from the Borough Surveyor, Council House, Nuneaton. Deposit 10s. 6d. each. Tenders by May 30.

West Suffolk.—Erection of a new range of farm buildings at holding 13/28 Undley Lodge, Lakenheath, for C.C. Documents from the County Land Agent, Shire Hall, Bury St. Edmunds. Tenders by June 8.

Wilton, Wilts.—Repainting of the waterworks and house, Ditchampton, for B.C. Documents from the Borough Surveyor at the Municipal Offices, Wilton. Tenders by June 16.

Woking, Surrey.—Replacement of 76 fireplaces with new fireplaces and tiled surrounds at Gloster Road, Old Woking, for U.D.C. Documents from Engineer and Surveyor, Council Offices, Woking. Deposit £2 2s. Tenders by June 15.

Worcestershire. — Painting the following bridges, for C.C.: Contract 1, Fladbury Bridge, over River Avon—painting of the whole structure; Contract 2, Evesham New Bridge, over River Avon, Defford Bridge over Bow Brook, Upton Snodsbury Bridge over Bow Brook—painting of parapet fencing, etc; contract 3, Teme Bridge, Tenbury Wells, over River Teme, Newnham Bridge near Tenbury Wells, over River Rea, New Mill Bridge, near Shelsley Beauchamp, over River Teme—painting of parapet fencing, etc. Documents from the County Surveyor, County Biuldings, Worcester. Deposit £2 2s. Tenders by June 9.

Worcester. — Redecoration of the following schools during the summer holidays, 1961, for City Council: (7) Cherry Orchard (assembly hall only); (8) Ronkswood Junior (annexe only); (9) Dines Green (six classrooms, assembly hall and staffroom); (10) St. John's Boys; (11) Royal Grammar (gymnasium changing rooms, Flag Meadow pavilion and St. Oswald's pavilion); (12) Elbury Mount (part interior Infants' School; exterior caretaker's house); (13) Claines St. George's (ceilings to infants' department); (14) Christopher Whitehead Girls (ground floor, except assembly hall); (15) Gorse Hill Junior (assembly hall, five classrooms and corridors); (16) Nunnery Wood Primary (excluding new classroom block but including caretaker's flat, assembly hall, toilets and head's room; (17) Victoria Institute (part only); (18) St. Stephen's Junior (four classrooms and cloaks); St. Stephen's Infants (four classrooms, cloaks and staffroom); (19) Pitmaston (junior department only); (20) Rainbow Hill Infants; (21) Samuel Southall Boys (corridors only); (22) Red Hill (one classroom only). Documents from City Engineer and Surveyor, 22 Bridge Street, Worcester. Deposit £2 2s., cheques payable to Worcester Corporation. Tenders by June 6.

CLOTHING AND TEXTILES

***Leyton, Essex.**—Supply of uniforms for B.C. Tenders by June 26.

Tipton, Staffs.—Supply of protective clothing for a period of 12 months, for B.C. Applications to the Borough Engineer and Surveyor, Municipal Buildings, Sedgley Road West, Tipton. Tenders by June 16.

DEMOLITION

Abercarn, Mon. — Demolition and site clearance of Chapel Row, together with Worthington's shop and slaughter house, 137 Newport Road, Cwmcarn, for U.D.C. Documents from the Surveyor, Council Offices, Abercarn. Deposit £2 2s. Tenders by May 30.

Harrow, Middx.—Demolition of underground air raid shelters and reinstatement of playing fields at Byron Recreation Ground, Harrow Recreation Ground, Pinner Memorial Park, Little Common, Pinner, and Stanmore Marsh, for B.C. Documents from the Borough Engineer, Council Offices, Uxbridge Road, Stanmore. Deposit £2 2s., cheque payable to B.C. Tenders by May 30.

ELECTRICAL

Breconshire.—Electrical installation at the Four-Stream Secondary Modern School, Brecon, for C.C. The floor area of the school is approximately 47,500 sq. ft. and comprises the following accommodation: 14 general classrooms, three laboratories, engineering, woodwork and metalwork rooms, two housecraft rooms, two art and craft rooms, history, geography and music rooms, library, assembly/dining hall, one gymnasium, kitchen area, staff rooms, boiler house, changing rooms, cloakrooms, entrance hall and corridors, etc. All electrical contractors desirous of tendering for the sub-contract are invited to submit their names and particulars to C. M. S. Wells, clerk of the county council, County Hall, Brecon, by May 29. Deposit £2 2s., cheques payable to C.C.

Hereford.—Wiring for electricity to 147 traditional houses and 12 bungalows on Newton Farm 5 site, for City Council. Documents from the City Architect, Town Hall, Hereford. Deposit £1 1s. Tenders by June 9.

Manchester. — Electrical installations, for City Council. Contract 260C St. George's redevelopment—four shops and four maisonettes. Documents from Director of Housing, Town Hall, Manchester 2. Tenders by May 30.

Peterborough.—Carrying out all the works necessary to provide a new supply cable to the blocks known as Elmside and Harrowdene at St. John's Close, Thorpe Road, Peterborough, for C.C. Documents from the County Surveyor, County Offices, Bridge Street, Peterborough. Deposit £2 2s. Tenders by June 1.

West Riding.—Re-wiring of the electrical installation at Morley Westerton J.M. and I. School for C.C. Documents from the Divisional Architect, Bishopgarth, Westfield Road, Wakefield. Applicants should quote National Inspection Council Certificate number. Tenders by June 13.

FENCING

Wrexham, Denbighs.—Following for B.C.: (a) Fencing contracts — Queen's Park and Huntroyde estates; (b) painting contract—steelwork to road bridge, Felinpuleston, and aqueducts (two), Kings Mill. Applications to the Borough Engineer and Surveyor, Guildhall, Wrexham. Deposit £1 1s. each. Tenders by June 9.

GAS AND WATER SUPPLY

Argyllshire.—Bowmore and Port Ellen Rural Water Supply, on the island of Islay, for C.C. The works comprise: Construction of a small dam and of a river intake; laying of approximately 20,000yd. of 7in., 6in. and 5in. diameter mains and construction of two 60,000 gallon mass concrete service reservoirs. Applications to Robert H. Cuthbertson and Associates, consulting engineers, 13 Eglinton Crescent, Edinburgh, 12, by May 27.

Dundee, Angus.—Construction of a 160,000 gallons capacity reinforced concrete water tower at Menzieshill, for Water Department. Documents from the Water Engineer and Manager, 1 Shore Terrace, Dundee. Tenders by June 5.

East Devon.—Following work for Water Board: Construction of 500,000-gallon reinforced concrete reservoir and booster pumphouse, with ancillary work at Roundball Hill, Honiton; construction of surge tank chamber and control house, with ancillary work at Ottery St. Mary. Documents from Rofe and Raffety, consulting engineers, 9 Brewer's Green, Buckingham Gate, London, S.W.1. Deposit £5 5s., cheque payable to the Board. Plans also seen at the office of the Chief Engineer to the East Devon Water Board, 46 New Street, Honiton, Devon. Tenders by June 14.

East Devon.—Supply and erection of the following water treatment plant at the proposed works at Wilmington, near Honiton, for Water Board: (1) Forced draught tower aerator; (2) chlorination plant; (3) dry feeder chemical dosing plant. Documents from the Chief Engineer to the Board, 46 New Street, Honiton. Tenders by May 31.

Kilkeel, Down.—Construction and completion of two stream intakes, together with ancillary manholes, pipes and specials, at Attical, for R.D.C. Documents from the offices of R. Ferguson and S. McIlveen, consulting engineers, 15 College Gardens, Belfast, 9, or at the offices of the Council, Kilkeel. Deposit £5 5s. Tenders by June 7.

Narberth, Pembs.—Rosebush water supply for R.D.C., including the construction of a brickwork plant house, 12ft. x 9ft. x 8ft. high, and the laying of some 1,200yd. of 2in. asbestos-cement and ¾in. polythene water mains, together with valves, and other incidental works. Documents from C. I. H. Beynon, clerk to the Council, Council Offices, Narberth. Deposit £2 2s., cheques payable to R.D.C. Plans seen at the offices of Ward, Ashcroft and Parkman, consulting engineers, 38 The Temple, Dale Street, Liverpool, 2. Tenders by June 1.

***Ramsey, Hunts.**—Water supply to Hollow Lane and Benwick Road, for U.D.C. Deposit £5 5s. Tenders by June 24.

HEATING AND VENTILATING

Cardiff.—Conversion to oil firing of three existing hot water boilers at the motorbus garage, Sloper Road, for City Council. Documents from the Transport General Manager, Wood Street, Cardiff. Tenders by June 3.

Rochdale, Lancs.—Conversion of the existing coke-fired boilers to oil firing at the Kirkholt Secondary Modern School for B.C. Documents from Borough Surveyor, Town Hall, Rochdale. Tenders by June 3.

HOUSING SCHEMES

Bicester, Oxon.—Six bungalows on the King's End site for U.D.C. Documents from G. Carline, surveyor, U.D.C. Offices, Bicester. Deposit £2 2s. Tenders by June 19.

Brackley, Northants.—Pair of bungalows at Wappenham Road, Helmdon, for R.D.C. Documents from the Council's Engineer and Surveyor, Brackley Lodge, Brackley. Deposit £2 2s. Tenders by June 29.

Cromer, Norfolk.—Eight bungalows and four houses, at the Links estate, for U.D.C. Documents from W. F. Tuthill, architect, 19 St. Peter's Road, Sheringham. Tenders by June 1.

Droxford, Hants.—Two blocks of four old people's bungalows and the construction of ancillary site works comprising approximately 286 super. yd. of roadway, 225 super. yd. of footpaths, 160ft. run of drains, grass verges and sewage disposal plant to serve the bungalows at Pound Lane, Meonstoke, for R.D.C. Documents from the Engineer and Surveyor, Northbrook House, Bishop's Waltham. Deposit £2 2s. Tenders by June 12.

Holland.—One house at Sutton St. Nicholas County Primary School (Lutton), near Spalding, for C.C. Documents from the County Architect, County Hall, Boston. Tenders by June 5.

***Llantrisant and Llantwit Fardre, Glam.**—Twenty-eight dwellings, Talbot Green, for R.D.C. Deposit £2 2s. Tenders by June 5.

Peterborough.—Oundle Road (old N.F.S. site), 16 old people's flats, for City Council. Documents from Howard V. Lobb and Partners, chartered architects, 20 Gower Street, London, W.C.1. Deposit £2 2s. Tenders by June 6.

Portadown, Armagh.—One hundred houses, together with road and other ancillary works, at Garvaghy Road, for B.C. Documents from the Borough Architect's Office, Tavanagh House, Thomas Street, Portadown. Deposit £5. Tenders by June 5.

Rugby, War.—Conversion of 3 Moultrie Road into three flats for B.C. Documents from Press and Wright, architects, 20 Regent Place, Rugby. Deposit £2 2s. Tenders by June 12.

Staffordshire.—Two pairs of police houses and garages at Daisy Bank, Coseley, for C.C. Applications to T. H. Evans, clerk of the County Council, County Buildings, Stafford, by June 15. Deposit £2 2s., cheques payable to C.C. Tenders by July 7.

Staffordshire.—One pair of police houses and garages at Milford Avenue, Ashmore Lake estate, Willenhall, for C.C. Applications to T. H. Evans, clerk of the County Council, County Buildings, Stafford, by June 15. Deposit £2 2s., cheques payable to C.C. Tenders by July 7.

Staffordshire.—One pair of police houses and garages at Hackwood Road, Hydes Road estate, Wednesbury, for C.C. Applications to T. H. Evans, clerk of the County Council, County Buildings, Stafford, by June 15. Deposit £2 2s., cheques payable to C.C. Tenders by July 7.

Staveley, Derbys.—80 three-bedroomed type brick houses on the Middlecroft estate, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Lowgates, Staveley, near Chesterfield. Deposit £1 1s. Tenders by June 12.

Strabane, Tyrone. — Ninety-seven dwellings and siteworks at Bradley's Field, for U.D.C. Documents from F. H. Wright and Partners, quantity surveyors, 79 Botanic Avenue, Belfast, 7. Deposit £5 5s. Plans also seen at the Town Hall, Strabane. Tenders by June 5.

Wanstead and Woodford, Essex.—Tenders from firms who will have the necessary staff and plant available at about the dates stated to undertake the following, for B.C.: Contract 1, Victoria Road, E.18—21 flats (August, 1961); contract 2, Snakes Lane, Woodford Green—9 flats (September, 1961); contract 3, Grove Hill, E.18—23 flats (September, 1961); contract 4, Prospect Road, Woodford Green—24 flats (October, 1961); contract 5, New Wanstead, E.11—four flats (January, 1962). Applications to L. S. Jeffery, Borough Surveyor, Municipal Offices, High Road, Woodford, E.18, by June 7.

***Watford, Herts.**—Elderly persons' flats, for B.C. Apply by May 29. Tenders by July 5.

MATERIALS AND SUPPLIES

East Riding.—Supply of 79 reflectorised clearway signs, for C.C. Applications to the County Surveyor, County Hall, Beverley. Tenders by June 5.

***Havant and Waterloo, Hants.**—Supply of materials, for U.D.C. Tenders by June 10.

Newton Abbot, Devon.—Supply of 20 Devon fires, 104 lavatory basins, 104 cold water cisterns, 104 hot water cylinders, 70 boiler

flue sets and fires, 34 conversion flues for combination grates, for hot water installations in council houses for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Kingsteignton Road, Newton Abbot. Tenders by June 5.

North Riding.—Supplying and building reconstructed stone to be used in nine new bridges on the Boroughbridge By-pass, trunk road A.1, for C.C. Documents from the County Surveyor, County Hall, Northallerton. Deposit £5 5s. Tenders by June 21.

Sheffield, Yorks.—Supply of the following to all departments of the Corporation from July 1, 1961, for City Council: Solid fuel and fuel oil. Documents from the Town Clerk, Town Hall, Sheffield. Tenders by June 2.

PLANT AND MECHANICAL TRANSPORT

Bury, Lancs.—Supply of the following, for B.C.: (1) Weatherill hydraulic 12H loading shovel; (2) Ford Thames diesel refuse collection vehicle fitted with Eagle Compressmore 12/20 cu. yd. body. Documents from Director of Public Cleansing, Town Hall, Bury, Tenders by May 31.

***Maldon and Coombe, Surrey.**—Supply plant, for B.C. Tenders by June 10.

Merionethshire. — Supply of the undermentioned plant for early delivery, for C.C.: One excavator, J.C.B. or similar type; two 5/6 tons S.W.B tipper Bedford lorries with diesel engines; three 5/3½ concrete mixers, diesel engines; one Fordson Major tractor, diesel, with hydraulic loader; one diesel compressor (250 c.f.m.), with hoses and tools; one cement gun, water pump and cement injector. Offers are also invited for a 1953 Morris Minor car, registration FF9118, which may be inspected at the County Council's ambulance depot, Arran Road, Dolgellau. Tenders, accompanied by the makers specifications and other details, enclosed in a plain sealed envelope, endorsed "Tender for Plant," to County Clerk, County Offices, Penarlag, Dolgellau, by June 5.

Southend-on-Sea, Essex.—Supply of hand and motor mowers—the mowers on a part-exchange basis, for B.C. Documents from the Parks Superintendent, Burdett Road, Southend-on-Sea. Tenders by June 7.

West Hartlepool, Dur.—Supply of the following, for B.C.: (a) Pedestrian controlled vibratory roller; (b) mechanically operated winches for sewer cleansing (two required). Documents from the Borough Engineer and Surveyor, Municipal Buildings, West Hartlepool. Tenders by June 9.

PLAYING FIELDS, PARKS, ETC.

Blackpool, Lancs.—Preparation of playing fields at the junction of Highfield Road and St. Annes Road, for B.C., comprising an area of 7½ acres, and including grading, soiling, seeding, fencing, and miscellaneous works. Documents from Arthur Hamilton, borough surveyor, P.O. Box 17, Municipal Offices, Blackpool. Deposit £2. Tenders by June 5.

RIVER AND FLOOD PREVENTION WORKS

Surrey.—Improvement of River Wandle within the Borough of Wimbledon, for C.C., comprising widening, deepening and straightening channel, constructing weirs, reinforced concrete and masonry retaining walls, etc. Documents from office of County Engineer, County Hall, Kingston-upon-Thames. Tenders by June 20.

ROADS, BRIDGES AND SITE WORKS

***Bedford.**—Various works, for B.C. Apply by June 5.

Blackburn, Lancs.—Hot rolled asphalt surfacing of approximately 43,700 sq. yd. of carriageways and footpaths in various streets; also tarmacadam base and asphalt sand carpet on various private streets, etc., for B.C. Applications to Borough Engineer, Town Hall, Blackburn. Tenders by June 12.

Birmingham.—Reconstruction of St. George's Street, Newtown redevelopment area units 105 and 110, for City Council. Documents from the office of Sir Herbert J. Manzoni, city engineer and surveyor, Baskerville House, Civic Centre, Birmingham, 1. Deposit £2 2s. Tenders by June 7.

Bournemouth, Hants.—Surface dressing to playground at Winton Secondary Boys School (Oswald Road), for B.C. Documents from the Borough Architect's Office, Room 106, Town Hall, Bournemouth. Deposit £1 1s. Tenders by June 10.

Bournemouth, Hants.—New asphalt area at rear of new classrooms, Stourfield Secondary School, Cranleigh Road, for B.C. Documents from the Borough Architect's Office, Room 106, Town Hall, Bournemouth. Deposit £1 1s. Tenders by June 10.

Carrickfergus, Antrim.—Following, for B.C.: Road works—surface dressing, bituminous macadam; street lighting improvements—supply and erection of 83 4ft. by 40 watt fluorescent lanterns, 129 2ft. 2 by 40 watt fluorescent lanterns. Documents from the Borough Surveyor, Town Hall, Carrickfergus. Tenders by June 3.

Carshalton, Surrey.—Stripping approximately 5,000 cu. yd. of topsoil on the Carshalton Road, Woodmansterne site, and depositing it in heaps within the site, and other ancillary earthmoving works, for U.D.C. Documents from the office of the Engineer and Surveyor, Stone Court, The Grove, Carshalton. Tenders by June 8.

Caterham and Warlingham, Surrey.—Construction of garage base, run-in and crossover for a block of two garages, at Greenhill Lane, for U.D.C. Applications to the Engineer and Surveyor, Council Offices, Caterham. Tenders by June 9.

Chatham, Kent.—Laying of approximately 900 sq. yd. of carriageway, for B.C., incorporating 3in. ashes, 9in. hardcore and 3in. of two coat tarmacadam, together with 230 lin. yd. of 5in. x 10in. half battered concrete kerbing, 350 sq. yd. of 2in. artificial stone paving, and various excavation s.w. drainage and ancillary works in Brake Avenue. Documents from the office of J. A. T. Richards, borough engineer and surveyor, Town Hall, Chatham. Deposit £2 2s. Tenders by June 2.

Chesterfield, Derbys.—Following schemes, for R.D.C.: (a) Construction of road and s.w. sewer at Unstone Green housing estate (west section), comprising approximately 68 lin. yd. of 6in. sewer; one manhole; 370 sq. yd. tarmacadam; 74 lin. yd. of precast concrete kerbs and 52 lin. yd. of precast concrete edging; (b) Wood View housing estate (footpaths and verges, part 3), Eckington, consisting of approximately 830 sq. yd. of tarmacadam and 750 lin. yd. of 6in. x 2in. precast concrete edging, together with incidental works. Documents from J. B. Wikeley, engineer and surveyor, Rural Council House, Saltergate, Chesterfield. Deposit £2 2s. Tenders by (a) June 5; (b) June 1.

Dagenham, Essex.—Resurfacing works at Forest Road, for B.C., including burning-off the existing surface, providing and laying 405 tons bituminous concrete, and providing and laying 3,375 sq. yd. x 2in. thick bituminous gravel macadam. Documents from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Tenders by June 10.

Dungannon, Tyrone. — Resurfacing approximately 14,000 super. yd. of carriageway, for U.D.C. Documents from the office of the Town Surveyor, Market Yard, Dungannon. Tenders by June 2.

Epsom and Ewell, Surrey.—Reinstatement of trenches chiefly requiring the services of mason paviors, for B.C. Documents from the office of Colin Cobbett, borough engineer and surveyor, Town Hall, Epsom. Deposit £2 2s. Tenders by June 5.

Gateshead, Dur.—Carrying out hot asphalt surfacing on the Gateshead section of the Gateshead/Felling By-pass, for B.C. Documents from the Borough Surveyor, Swinburne Street, Gateshead, 8. Tenders by June 6.

***Halifax, Yorks.**—Private street works for B.C. Deposit £2. Tenders by June 16.

Harrogate, Yorks.—Making up of one or more of the following private streets (lengths approximate), for B.C.: (a) Olive Grove (part) 210 lin. yd.; (b) Olive Walk (part) 120 lin. yd.; (c) Derwent Road (part) 50 lin. yd.; (d) Rydal Road (part) 180 lin. yd.; (e) Coniston Road (part) 80 lin. yd.; (f) Bilton Close 50 lin. yd. The work comprises kerbing and flagging to the footways and surfacing the carriageway in tarmacadam and fine cold asphalt. Documents from the office of the Borough Engineer, Municipal Offices, Harrogate. Tenders by June 1.

Hertfordshire.—Construction of a footbridge over the railway line near Harpenden East station, alongside the road bridge which carries B.652 (Station Road) over the railway, for C.C. The footbridge will be 6ft. wide x 103ft. long in three spans. The construction consists of steel beams supported by steel trestles, with deck slabs of precast reinforced concrete, and with timber parapets. The trestles and bridge ends are on mass concrete foundations. Various items of work such as fencing and footpath surfacing are to be carried out at the ends of the bridge. Documents from the County Surveyor, County Hall, Hertford. Tenders by June 15.

High Wycombe, Bucks.—Making-up of approximately 2,000 sq. yd. of tarmacadam footpath, together with approximately 2,800 sq. yd. of grass verge, at Lincoln Road, Cressex Industrial Estate, High Wycombe, for B.C. Documents from the Borough Engineer's Department, Municipal Offices, High Wycombe. Deposit £2 2s. cheque. Tenders by June 5.

Horbury, Yorks.—Making up of the roads and footpaths at Regent Street, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Horbury. Tenders by June 3.

Irvine, Ayrs.—Construction of approximately 800 lin. yd. of 15in. to 6in. diameter concrete and f.c. sewer, with ancillary works and excavating, and laying bottoming for 5,000 sq. yd. of roadway at the industrial estate for B.C. Applications to R. W. Morrison, burgh surveyor, Irvine, who will arrange to point out the site. Tenders by May 30.

Long Eaton, Derbys.—(a) Surface dressing of 44,000 sq. yd. of carriageways, and (b) kerbing and channelling, and concrete slab paving in parts of four streets, for U.D.C. Documents from Francis Turner, engineer and surveyor, Town Hall, Long Eaton. Tenders by June 3.

Lurgan, Armagh.—Reconstruction of North Circular Road, and other ancillary works, for B.C. Documents from the Borough Surveyor's Office, 6 Union Street, Lurgan. Tenders by June 3.

Newcastle, Down.—Surface dressing roads, for U.D.C. Documents from the Town Surveyor, U.D.C. Office, Newcastle. Tenders by June 1.

New Mills, Derbys.—Surface dressing of approximately 20,770 sq. yd. of carriageway, for U.D.C. Documents from the Surveyor, Town Hall, New Mills, near Stockport. Tenders by May 31.

***Oldham, Lancs.**—Private street works, for B.C. Deposit £2 2s. Tenders by June 9.

Portsmouth. — South Wymering Farm development, roads, sewers, hardstandings and footways, for City Council. The works include 1,200 sq. yd. of reinforced concrete carriageway and 400 lin. yd. of sewers approximately. Documents for the City Engineer at the Municipal Offices, 1, Clarence Parade, Portsmouth. Deposit £2. Tenders by May 30.

Poulton-le-Fylde, Lancs. — Road improvement of Vicarage Road (approximately 860 ft.), for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Poulton-le-Fylde. Deposit £3 3s. Tenders by June 10.

Sevenoaks, Kent.—Constructional work in connection with the Odeon cinema car park, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Argyle Road, Sevenoaks. Deposit £2 2s. Tenders by June 12.

Staines, Middx.—Reconstruction of Hithermoor Road, Stanwell, for U.D.C. The works comprise the following approximate quantities: 1,600 cu. yd. excavation, 6,000 sq. yd. 8in. lean-mix concrete and 3½in. gravel asphalt, 2,100 lin. yd. precast concrete kerb and channel, 1,070 lin. yd. 6in., 9in. and 12in. G.S. surface water sewer, 3,300 sq. yd. 2½in. tarpaving, and 33 class B lighting units. Documents from office of the Engineer and Surveyor, 240 London Road, Staines. Deposit £2 2s. Tenders by June 8.

***Stratford-upon-Avon, War.**—Clopton Road improvement, for B.C. Deposit £2 2s. Tenders by June 7.

Surrey. — Construction of approximately 1,000 sq. yd. access road and standing bay in concrete and tarmacadam, including drainage and earthworks adjacent to Farnham By-pass (A.31). Documents from County Engineer, County Hall, Kingston upon Thames. Tenders by June 14.

Swadlincote, Derbys.—Supply and laying of plastic white lining to approximately 17,500yd. of carriageway within the Urban District, for U.D.C. Documents from the Engineer and Surveyor, Bank House, Midland Road, Swadlincote. Tenders by June 5.

***Warwickshire.**—Construction of lay-bys, Meriden By-pass, for C.C. Deposit £2 2s. Tenders by June 9.

Whickham, Dur. — Surface dressing of approximately 87,139 super. yd. of county and district roads by mechanical spraying plant to be carried out during July, 1961. Documents from J. Buggle, clerk of the Council, Council Offices, Whickham, Newcastle upon Tyne. Tenders by June 1.

Wortley, Yorks.—Reconstruction of Miles Road, High Green (length 270yd. approximately), for R.D.C., including kerbing, resurfacing of carriageway and footpaths, building of front boundary walls, steps, and incidental works. Documents from Arthur Wikeley, Council Offices, Grenoside, Sheffield. Tenders by June 16.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

***Beeston and Stapleford, Notts.**—Sewage disposal works extensions, for U.D.C. Deposit £5 5s. Tenders by June 26.

***Benfleet, Essex.**—South Benfleet sewerage, contract 1, for U.D.C. Deposit £3 3s. Tenders by June 19.

Billingham, Dur. — Low Grange private development area main intercepting sewer, for U.D.C., comprising construction of about 800 lin. yd. of 30in. to 21in. diameter concrete pipe sewers, manholes and incidental works. Documents from Edwin Shaw, engineer and surveyor, Council Offices, Haverton Hill, Billingham. Deposit £2 2s. Tenders by June 5.

Bradford, Yorks. — Supply of the following items of plant for City Council: (a) One mobile crane, pneumatic tyred, diesel driven, 4-ton lifting capacity; (b) one air compressor, steam driven, to deliver 1,000 cu. ft. of free

air per minute at 100 p.s.i., including installation. Documents from the Sewage Works Engineer and Manager, Esholt Hall, near Shipley, Yorkshire. Tenders by June 5.

Cardiff.—Following schemes for the improvement of Whitchurch Brook, for R.D.C.: (Contract 1) under the railway line from the Taff Vale railway to Roath branch sidings, Whitchurch, construction of approximately 30 lin. yd. of twin 54in. diameter culvert under a main railway line, and a short length of concrete channel requiring approximately 670 cu. yd. of excavation and 210 cu. yd. of in-situ concrete together with ancillary works; (2) from Roath branch sidings to Merthyr Road Bridge, Whitchurch, construction of a concrete channel requiring approximately 4,000 cu. yd. of excavation and 1,300 cu. yd. of in-situ concrete together with ancillary works; (3) from Merthyr Road Bridge to Manor Way, Whitchurch, construction of a concrete channel requiring approximately 1,550 cu. yd. of excavation and 870 cu. yd. of in-situ concrete together with ancillary works; (4) from Rhiwbina Halt to Beulah Cross Roads, Rhiwbina construction of a concrete channel requiring approximately 190 cu. yd. of together with ancillary works. Documents from excavation and 240 cu. yd. of in-situ concrete together with ancillary works. Documents from S. P. Youldon, engineer and surveyor, 20 Park Place, Cardiff. Deposit £3 3s. per contract. Tenders by June 1.

Eastleigh, Hants.—Construction of approximately 400yd. of 12in. diameter concrete sewer, with manholes and heading under railway in Woodside Road, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall Eastleigh. Deposit £2 2s. Tenders by June 19.

Ledbury, Heres.—Construction of approximately 2¼ miles of 30in. to 6in. diameter glazed stoneware pipe sewers, together with concrete tube manholes, sewage pumping station, ejector station and approximately 800yd. 9in. and 4in. diameter iron rising main, and sewage disposal works comprising detritus tanks, settling tanks, bacterial filters, humus tanks, sludge drying beds, sludge pumping station, and other incidental works, contract 1, for U.D.C. Documents from Wilcox, Raikes and Marshall, consulting engineers, 33 Great Charles Street, Birmingham, 3. Deposit £10 10s., cheque payable to Council. Tenders by June 19.

Leeds.—Construction of a new surface water sewer in reinforced concrete pipes varying in size from 18in. to 48in. internal diameter, approximately 1,340 lin. yd. in length, and including manholes and incidental works, and the culverting of the Beck at the proposed abattoir site, Knowsthorpe industrial estate, for City Council. Documents from Room 75, Civic Hall, Leeds, 1. Deposit £3 3s. Tenders by July 7.

Startforth, Yorks.—Barningham sewerage and sewage disposal works, for R.D.C., including the laying of approximately 1,640 lin. yd. of 6in. sewer, together with manholes and house connections, and the construction of a sewage disposal works for a population of 250. Documents from the offices of Fairbank and Son, consulting engineers, 29 St. Mary's Bootham, York. Deposit £3 3s., cheque payable to R.D.C. Plans also seen at the Council Offices, 21 Galgate, Barnard Castle, Dur. Tenders by June 17.

***Thornaby-on-Tees, Yorks.**—Mandale Beck culvert and sewer, and improvement works, for B.C. Deposit £10. Tenders by June 20.

***Willenhall, Staffs.**—Sewer cleaning, for U.D.C. Tenders by June 12.

Wood Green.—Construction of approximately 200 lin. yd. of 9in. foul and surface water sewers in Commercial Road, in trench and heading, for B.C., including the construction of six new manholes and the reconstruction of two existing manholes. Documents from the office of the Borough Engineer, Town Hall, Wood Green, N.22. Deposit £1 1s. Tenders by June 5.

***Worcester.**—Construction of manholes, for City Council. Deposit £1 1s. Tenders by June 12.

STREET LIGHTING

Bangor, Down.—Supply and erection of the following, for B.C.: (a) 37 4ft. 4/40 watt optical refractor type lantern units; (b) 7 3ft. 2/30 watt optical refractor type lantern units, complete with tubes, instant start gear, etc., to be mounted upon; (c) 9 19ft. 6in. prestressed concrete columns, to be supplied and erected by the contractor; and (d) 7 15ft. prestressed concrete columns, to be supplied and erected by the contractor, and (e) on 28 E.B.N.I. timber poles, the fixing brackets to be supplied by the contractor. Documents from the Borough Surveyor, Town Hall, The Castle, Bangor. Tenders by June 13.

Wallasey, Ches.—Supply and delivery to Mill Lane Depot of the following street lighting equipment, for B.C.: 52 reinforced concrete group B street lighting columns; 52 post top group B street lighting lanterns. Documents from the Borough Engineer and Surveyor, Town Hall, Wallasey. Tenders by June 7.

Wood Green.—Following contracts in connection with the installation of improved street lighting, for B.C.: (a) Provision and erection of 155 group A concrete columns; (b) provision of 40 140-W sodium lanterns and control gear; (c) provision of 115 3 x 80-W fluorescent lanterns and control gear. Documents from the office of the Borough Engineer, Town Hall, Wood Green, N.22. Tenders by June 8.

AWARDS

BUILDING AND DECORATING
(See also Housing Schemes)

Ashburton, Devon. — Alterations and improvements to the cottages at Crockaton for U.D.C.—Webber and Christophers, St. Lawrence Lane, Ashburton, £4,430.

Barry, Glam.—Extension to research and development laboratory for Midland Silicones, Ltd. — Richard Costain (Construction), Ltd., Brunel House, St. Georges Road, Bristol, 1, estimated cost £150,000. Work has commenced.

Belfast. — Erection of a new branch bank at Shaftesbury Square for the Ulster Bank, Ltd.—J. and R. Thompson, Ltd., Roden Street, Belfast, 12, estimated cost £180,000. Houston and Beaumont, architects, 30 College Gardens, Belfast, 9; V. B. Evans, quantity surveyor, 3 Bradbury Place, Belfast, 7.

Bermondsey.—Repairs and improvements at Tower Bridge Secondary School for L.C.C. — Hotson Bros., Ltd., 37 Balham Park Road, London, S.W.12, £25,700 (accepted); Henry Kent (Builders), Ltd., £28,746; Walter Gladding and Co., Ltd., £30,382; Collis and Co., Ltd., £30,408; Soar and Co., Ltd., £31,000.

Boldon, Dur.—Exterior painting of houses as follows for U.D.C. J. T. Edmondson, surveyor—200—Hector A. Grabham, Ltd., 21 Blandford Street, Sunderland, £2,405; 285—R. Brown and Sons (South Shields), Ltd., 24 Lord Street, South Shields £2,416; 146—Smiths Decorators (Newcastle), Ltd., 135 Stanhope Street, Newcastle upon Tyne, 4, £1,368. Work commencing June 1.

Bolton, Lancs. — Following for B.C.: Alterations to Roy House—general building work: Direct Labour; heating and domestic hot water alterations—Robert Walsh, Ltd., Bolton; electrical alterations and cooking, etc., equipment—Bonney and Co., Bolton (recommended). Estimated cost £6,870.

Construction of public conveniences at Barrow Bridge — F. Pardon, Ltd., Glebe Street, Bolton (subject to Ministry approval). Estimated cost £3,242.

Bournemouth, Hants. — Alterations and extensions to premises at 2-12 Commercial Road and Upper Terrace Road for Bobby and Co., Ltd. Healing and Overbury, architects, Rodney Lodge, Rodney Road, Cheltenham—James Drewitt and Son, Ltd., Ringwood Road, West Hove, Bournemouth, £181,260.

Addition of new wing to Talbot Heath School for School Governors — Thomas Worthington and Sons, architects, 178 Oxford Road, Manchester, 13 — James Drewitt and Son, Ltd., £25,553 (negotiated contract).

Camberley, Surrey.—Erection of Barossa County Secondary School for Co. E.C.—C. Neal and Son, Ltd., East Lane, West Horsley, £216,717 (recommended).

Camberwell.—Improvements at Honor Oak Secondary School for Girls for L.C.C.—Thomas and Edge, Ltd., 52 Macbean Street, London, S.E.18, £60,066 (accepted); C. P. Roberts and Co., Ltd., £60,682; W. J. Marston and Son, Ltd., £60,926; Henry Kent (Builders), Ltd., £62,279; H. M. Howard (Mitcham), Ltd., £62,700; S. G. and A. Agombar, £62,962; Truett and Steel, Ltd., £63,100; E. J. Lacy and Co., Ltd., £64,621.

Canterbury, Kent. — Erection of a departmental store for Ricemans, Ltd.—Richard Costain, Ltd., 33 St. Georges Place, Canterbury, estimated cost £300,000. Sir John Burnet, Tait, Wilson and Partners, 9 Gower Street, London, W.C.1, are the architects, Wakeman, Trower and Partners, 47 Bloomsbury Square, London, W.C.1, are the quantity surveyors, and A. E. Beer, 96 St. Georges Square, London, S.W.1, are the structural engineers for the scheme. Work about to commence.

Cardiff.—Following for City Council: Repairs and redecoration at Royal Stuart Institute and Boston Buildings, James Street—Direct Labour (recommended). Estimated cost £925.

Repair of fire damage at Wood Street Schools—P. Jeans and Co., 71 Moorland Road, Cardiff, £1,461; erection of an E.S.N. School—H. L. Simpson and Co., Ltd., 45 Richmond Road, Cardiff, £11,344 (recommended).

Carlisle, Cumb. — Extensions at Carlisle and County High School for Girls (stage III) for City Council—George Cowan and Son, 56-78 Wigton Road, Carlisle (recommended).

Caterham Valley, Surrey.—Erection of central library for Co. E.C.—Herbert Kennard, Ltd., 109 Gibbon Road, London, S.E.15, £47,086 (recommended).

Chapel-en-le-Frith, Derbys.—Adaptations and extensions to Cromwell House for C.C.—Direct Labour, £4,460.

Cheam, Surrey.—Erection of dental surgery and recovery room, etc., at Cheam Clinic, Priory Crescent, for Co. E.C.—Goodship and Saunders, Ltd., 46 High Street, Ewell, £3,620 (recommended).

Chelmsford, Essex.—Erection of a shop at 19 High Street for Dolcis, Ltd.—Demolition and Construction Co., Ltd., 3 St. James's Square, London, S.W.1. Ellis E. Somake, chief staff architect; C. T. R. Kelly, quantity surveyor, 8 Manchester Square, London, W.1, and Constel (Structures), Ltd., consulting engineers, 52 Grosvenor Gardens, London, S.W.1.

Coulsdon, Surrey. — Extensions at Toldene County Primary School for Co. E.C.—H. H. and F. Roll, Ltd., 7 Ashley Road, Epsom, £19,485 (recommended).

Dagenham, Essex. — Erection of Halbutt library, hall and old people's club for B.C.—Hammond and Miles, Ltd., Scrafton Road, Ilford, £54,528 (recommended).

Deptford.—Rebuilding a primary school at Trundley's Road for L.C.C.—Stewart and Partners Ltd., 105 Baker Street, London, W.1, £68,300 (accepted); H. T. Oliver and Sons, Ltd., £70,105; J. Jarvis and Sons, Ltd., £70,450; W. J. Marston and Son, Ltd., £72,359; Thomas and Edge, Ltd., £81,900; Henry Kent (Builders), Ltd., £83,609; R. Durtnell and Sons, Ltd., £85,601; Marshall Andrew and Co., Ltd., £86,616.

East Grinstead, Sussex.—Erection of a pavilion at King George's playing fields for U.D.C.—Panel-Lastic Construction Co., Ltd., Railway Terrace, Feltham, Middx., £4,988.

East Sussex.—Alterations to the county clinic at London Road, Bexhill-on-Sea, for C.C.—A. J. Coomber and Sons, Ltd., 29 Cooden Sea Road, Little Common, Bexhill-on-Sea, £2,397 (recommended).

Edinburgh.—Erection of a depot at Bankhead Drive, Sighthill Industrial Estate, for J. Lyons and Co., Ltd., Cadby Hall, London, W.6—H. Pannett, Ltd., 32 Preston Road, Brighton, 7, Sussex. Estimated cost £100,000.

Egham, Surrey.—Adaptations and extensions at Egham Cunty Secondary School for Co. E.C.—Bosley and Seward, Ltd., £14,854 (recommended).

Esher, Surrey.—Extensions and adaptations at Wayneflete County Secondary School for Co. E.C.—Croudace, Ltd., 97 Godstone Road, Caterham, £162,168 (recommended).

Essex. — Erection of the following for C.C.: (1) Hornchurch Scargill County Primary School—extensions; (2) Cranham Engayne County Primary School—extensions; (4) Springfield County Primary School (estimated cost £52,000); (5) Shelley County Junior School (estimated cost £38,000); (7) Stanford-le-Hope County Primary School—(1) and (2) Hammond and Miles, Ltd., Scrafton Road, Ilford, £29,760 and £28,580; (4) P. E. Gowers, Ltd., Barnes Mill Road, Springfield, Chelmsford, £58,590; (5) Henry Potter, Ltd., Fairfield Road, Chelmsford, £37,943; (7) A. E. Field (Builders), Ltd., 48 Essex Road, Chadwell Heath, £99,223; (8) Romford, Gidea Park, Branch Library—a single-storey building with load-bearing brickwork; (9) Thundersley County Junior School—two new classrooms in traditional construction and adaptations to provide toilets—(8) Warriner (Builders), Ltd., 149 North Street, Romford, £19,219; (9) C. R. Muggleton, 501 Ashington Road, Rochford, £9,349; (10) Basildon Timberlog Secondary School, further education wing, (11) Dunton County Primary School, rebuilding toilets and waterborne sanitation—(10) and (11) A. Winser, Ltd., 78 Southend Road, Wickford, £7,450 and £5,950; (12) Thorpe-le-Soken, Landermere County Secondary School, erection of additional classrooms—B. A. Wiggins, Ltd., 14 Agate Street, Clacton-on-Sea, £8,787.

Farnham, Surrey.—Provision of four movable classrooms at Farnham Grammar School for Co. E.C.—Robert H. Hall and Co. (Kent), Ltd., Paddock Wood, Kent, £6,952 (recommended).

Great Yarmouth, Norfolk.—Erection of a single-storey building on the Millora site,

South Denes, for Erie Resistor, Ltd. Duke and Simpson, architects, 6 Great Castle Street, London, W.1—R. G. Carter, Ltd., Drayton, Norwich. Estimated cost £90,000. Work commenced.

Guildford, Surrey.—Construction of four-classroom extension at Park Barn County Primary School, for Co. E.C.—A. W. Middleton and Co., Ltd., Woking, £21,845 (recommended).

Ham, Surrey.—Extensions at Meadlands County Primary School for Co. E.C.—A. G. Smith, Guildford, £16,225 (recommended).

Hemel Hempstead, Herts.—Construction of Warners End Hall for B.C. A. H. Turner, borough engineer — F. W. Sears and Son, Ltd., Hammer Lane, Hemel Hempstead, £19,558 (accepted); J. Honour and Son, Ltd., £21,924; J. A. Stirling, Ltd., £23,942. Work commencing July, 1961.

Hersham, Surrey.—Erection of branch library for Co. E.C. — E. Clarke and Sons (Addlestone), Ltd., Brighton Road, Addlestone, Weybridge, £17,682 (recommended).

Holland.—Erection of a fire station at Robin Hood's Walk, Boston, for C.C.—S. Budge, Boston, £47,655 (recommended).

Horley, Surrey. — Extensions and adaptations at Horley County Secondary School for Co. E.C.—Griggs and Son, Ltd., 56 Victoria Street, London, S.W.1, £248,885 (recommended).

Huntingdonshire.—Erection of a clinic at Nursery Road, Huntingdon, for C.C.—Johnson and Bailey, Ltd., Norfolk Street, Cambridge, £28,084.

Leatherhead, Surrey.—Extension of Eastwick County Junior School and provision of two classrooms as first stage of the infants' school for Co. E.C.—W. W. Harris, Ltd., Weybridge, £12,540 (recommended).

Leigh, Lancs.—Alterations at public baths, Silk Street, for B.C.—Direct Labour. Estimated cost £4,000. Work commenced.

Lewisham.—Minor improvements at Forest Hill School for L.C.C.—William H. Figgis, 68 First Avenue, London, S.W.14, £20,659 (accepted); F. H. Beeching and Son (Keston), Ltd., £21,606; Hotson Bros., Ltd., £22,428; W. R. Oldham, Ltd., £24,250; Marshall-Andrew and Co., Ltd., £24,872; R. H. Lynn and Co., Ltd., £25,722.

Lewisham.—Erection of an extension and adaptations at Catford Secondary School for Boys for L.C.C.—Griggs and Son, Ltd., 56 Victoria Street, London, S.W.1, £356,834 (accepted); Prestige and Co., Ltd., £366,907; Marshall-Andrew and Co., Ltd., £369,509; Galbraith Bros., Ltd., £372,206; Rowley Bros., Ltd., £373,691; W. J. Simms, Sons and Cooke, Ltd., £374,262; Tersons, Ltd., £374,718; A. T. Rowley (London), Ltd., £375,102; Rush and Tompkins, Ltd., £386,583; Kirk and Kirk, Ltd., £399,775; Thomas and Edge, Ltd., £402,374.

Lingfield, Surrey. — Extension of assembly hall and dining room at Lingfield County Secondary School for Co. E.C.—Holbrook (Oxted), Ltd., Hoskins Road, Oxted, £1,212 (recommended).

Linwood, Renfrews.—Erection of a factory at Linwood for the Pressed Steel Co., Ltd., Cowley, Oxford—Holland & Hannen and Cubitts (Scotland), Ltd., 127 St. Vincent Street, Glasgow, C.2. Estimated cost £1,750,000.

Lowestoft, Suffolk.—External decoration of the following dwellings for B.C.: 117 (group a)—W. Ames, Ltd., 20 North River Road, Great Yarmouth, £2,097; 68 (group b) H. D. Langlands, 23 Suffolk Road, Lowestoft, £1,166; 120 (group c)—Direct Labour, £2,306; 90 (group d)—Holmes and Bilverstone, Ltd., 117 Oulton Road, Beeches estate, Lowestoft, £868 (recommended).

Oxford. — Following for City Council: Provision of a workmen's canteen, drying room and washing facilities at Florence Park—J. and H. Cox, Ltd., Bridge House, Littleworth, Oxford, £2,496; external painting of the following during 1961—(contract 89) 127 houses at Barton 3, and (99) 79 houses at Weirs Lane 1—D. and J. Exley (Decorators), Ltd., 113 Kingston Road, Oxford, £6,715 and £1,483; (90) 20 houses and 20 garages at Barton 3, (94) 74 aluminium bungalows at Rose Hill 3 (part) and (95) 40 aluminum bungalows at Slade Park estate (part)—Adler and Orr, £2,638, £1,554 and £1,050, respectively; (91) 210 houses at Barton 4—J. J. Hamilton and Sons, Perrin Street, Headington, £8,373; (92) 130 houses at Northway (part) and (93) 115 houses and nine garages at Northway (part)—Cordial Decorating Co., 14 Marlborough Place, Eynsham, £1,600 and £1,606 (recommended).

Pembroke Dock. — Demolition of London House, Pembroke Street, and erection on site of a new convent for Rev. Mother General, Chigwell Convent, Essex. Patrick and M. White, architects and quantity surveyors, 27 Old Bond Street, London, W.1 — Frank Brown and Co., Victoria House, Victoria Road, Pembroke Dock.

Peterborough—Erection of three brick garages, Welmore Road housing estate, Glinton, for R.D.C.—N. W. Bonfield, 36 North Fen Road, Glinton, £635 (accepted); T. W. Maxey,£748; Kell Harris (Contractors), Ltd., £652 S. S. Plant, £650; Stevenson Robinson, Ltd., £639.

Pontypridd, Glam.—Construction of a workshop block, a single-storey, steel-framed main section clad in brickwork, with flat roof and monitor roof lights, a two-storey section in reinforced concrete and a single-storey laboratory block at the College of Advanced Technology, Treforest, for C.C.—J. Gerrard and Sons, Ltd., Swinton, Lancs., £68,000. E. A. E. Evans, county architect, and Davis, Belfield and Everest, quantity surveyors, 158 Commercial Street, Newport, Mon.

Purfleet, Essex.—Extensive construction work on a three-acre site in connection with the expansion programme, including buildings to house new machinery and its ancillary plant, as well as raw material and finished goods warehouses, for Thames Board Mills, Ltd. Frederick S. Snow and Partners, consulting engineers, 144 Southwark Street, London, S.E.1—Holloway Brothers (London), Ltd., 157 Millbank, London, S.W.1, £1,450,000. Work just commenced.

Purley, Surrey.—Extensions and adaptations at Purley County Boys' School for Co. E.C. — Humphreys, Ltd., 161 Kingston Road, New Malden, £109,645 (recommended).

Portsmouth.—Erection of motor premises at Hambledon Road, Waterlooville, for Wadhams, Ltd.—Trollope and Colls, Ltd., 1 Noble Street, London, E.C.2.— Estimated cost £150,000. Work commenced.

Rochford, Essex.—Rebuilding of the rectory of St. Andrew's Parish Church, Ashington, for the Church Commissioners and Diocesan Dilapidation Board of Chelmsford. Humphrys and Hurst, architects, 28 Dorset Street, Portman Square, London, W.1—D. Sutton, 381 Main Road, Ashington, Rochford.

Rowley Regis, Staffs.—Construction of the proposed sports pavilion at Bearmore Mound for B.C.—Jakeman and Round, Helier Street, Dudley, £7,850 (recommended, subject to Ministry approval).

Rutland.—Construction of four additional classrooms at Oakham C.E. Primary School and two at Cottesmore County Primary School for E.C.—E. Bowman and Sons, Stamford, £17,063, and Stafford and Munday, Oakham, £6,950, respectively.

St. Albans, Herts.—Erection of a supermarket in St. Peter's Street for Tesco Stores, Ltd.—Opus, Ltd., 20 Telford Avenue, London, S.W.2, estimated cost £50,000. H. Brooke, architect, 4 Queen Victoria Street, London, E.C.4, and Kenneth Spicer, quantity surveyor, 1a Cavendish Square, London, W.1.

Saffron Walden, Essex.—Erection of public conveniences and improvement to baths for B.C.—R. Faircloth, 16 Victoria Avenue, Saffron Walden, £9,237 (recommended, subject to deductions); L. and S. £9,246; F. W. Horsley, £9,407; Rooke and Sons, Ltd., £9,573.

Shrewsbury, Salop. — Provision of a pavilion and caretaker's house at Sundorne playing fields for B.C. — Bertram E. Pugh and Son, Pontesbury, Shrewsbury, £1,800 (recommended).

Stratford-on-Avon, War. — External painting of 165 traditional-type houses and flats situated in the parishes of Ashorne, Bearley, Claverdon, Henley-in-Arden, Ullenhall, Wellesbourne and Wootton Wawen for R.D.C. J. Wood, engineer and surveyor—J. H. Woodward (Contractors), Ltd., Eastfield Road, Leamington Spa, £2,606.

Stretford, Lancs.—Following for B.C.: External painting of dwellings during 1961, 40 and 32 Sandy Lane estate and 58 at Moss Vale estate—J. Addison and Co., Stretford, £674, £556 and £748, respectively; 24 at Sandy Lane estate—W. Costin and Son, 37 Portland Road, Stretford, £680; 32 at Moss Vale estate—W. Hamand and Sons, 12 Withington Road, Manchester, 16, £575; 42 at Moss Vale estate—Catons (Painters), Ltd., 29 Washway Road, Sale, £604; 84 and 90 at Christie Road estate—A. and E. Gibson, 19 Mersey Road, Heaton Mersey, £1,029 and £972, respectively (recommended).

Painting works at various schools—I. Addison and Co., £1,077, W. and E. Fuller, 96 Derbyshire Lane, Stretford, £1,643 and F. and J. Pilling (Bros.), Ltd., Antwerp House, Birch Lane, Manchester, 13, £2,565 (recommended).

Construction of six prefabricated concrete garages at Burleigh Court and 14 at Poplar Road — Bathcrete, Ltd., Witney, Oxon, £1,187 (recommended).

Stepney. — Erection of a county secondary school at White Horse Lane for L.C.C.—J. M. Hill and Sons, Ltd., Wembley, Middx., £383,233 (accepted); Marshall-Andrew and Co., Ltd., £385,562; Rowley Bros., Ltd., £392,540; A. T. Rowley (London), Ltd., £394,326; Bernard Sunley and Sons, Ltd., £395,282; Griggs and Son, Ltd., £395,461; C. Miskin and Sons, Ltd., £397,136; Kirk and Kirk, Ltd., £400,215; Y. J. Lovell (London), Ltd., £401,120; The Demolition and Construction Co., Ltd., £401,930; Galbraith Bros., Ltd., £412,918; Thomas and Edge, Ltd., £416,473.

Surrey.—Following for Co. E.C.: Supply and erection of 32 and 31 moveable classrooms at various schools during 1961-62—R. H. Hall and Co. (Kent), Ltd., Paddock Wood, Kent, £49,475, and Swiftplan, Ltd., 39 Victoria Street, London, S.W.1, £49,755, respectively; erection of first stage of Woodcote County Junior School—Downs Estates, Ltd., Downs House, Banstead, £33,577 (recommended).

Tilford, Surrey. — Provision of timber bungalows for staff accommodation at Sheephatch School for Co. E.C.—Cedar Homes, Ltd., Artington, Portsmouth Road, Guildford, £5,898 (recommended).

Totnes, Devon.—Construction of a cattle market for B.C.—Staverton Contractors, Ltd., Totnes, £88,585 (recommended, subject to reductions).

Tottenham, Middx.—Construction of Tottenham County Grammar School in Intergrid system of precast prestressed concrete for C.C. — Gilbert Ash, Ltd., 2 Stanhope Gate, London, W.1.

Walsall, Staffs.—Roadworks in the triangular area adjoining Duncalfe Street, and repairs to existing boundary wall for B.C.—J. and F. Wootton, Ltd., Pinfold, Bloxwich, Walsall, £1,100.

Walton-on-Thames, Surrey. — Alterations to biology laboratory at the County Secondary School for Girls for Co. E.C.—Limpus and Son (1952), Ltd., 67 Victoria Road, Surbiton, £1,496 (recommended).

Wellington, Som.—Improvement of 34 Council houses for R.D.C.—C. W. Lawrence, 11 Middle Street, Taunton, £2,841.

Wem, Salop.—External painting of 43 houses at eight sites for R.D.C. C. H. Jeffery, surveyor—W. H. Rogers and Son, 40 New Park Street, Castlefields, Shrewsbury, £468 (accepted); C. Harrison, £576; J. D. Coyle, £516; W. D. Ward, £675; Geo. Green and Son, £812.

Weybridge, Surrey.—Erection of Oatlands County Primary School for Co. E.C.—E. and D. Simmons, Ltd., Addlestone, Weybridge, £38,670 (recommended).

Whitchurch, Salop.—Erection of a fire station for C.C.—G. A. Poole, Ltd., 37 Liverpool Road, Newcastle-under-Lyme, Staffs., £13,642.

Wimbledon, Surrey.—Adaptations at Wimbledon County Girls' School for Co. E.C.—Humphreys, Ltd., 161 Kingston Road, New Malden, £29,914 (recommended).

Wimbledon, Surrey.—Erection of lecture block comprising final stage of extensions to Southlands Teachers Training College—Turriff Construction Corporation, Ltd., 11 South Wharf Road, London, W.2, estimated cost £78,000. Yorke Rosenberg and Mardell, 2 Hyde Park Place, London, W.2, are the architects, Davis Belfield and Everest, 9 Ashley Place, London, S.W.1, are the quantity surveyors and Clarke and Nicholls and Marcel, 21 Westbourne Grove, London, W.2, are the consulting engineers for the scheme.

Woking, Surrey. — Redecoration and adaptations at Woking Child Guidance Clinic for Co. E.C.—S. O. Rudkin and Co., Ltd., Tannery Lane, Ripley, Woking, £1,237 (recommended).

Woolwich.—Erection of a day special school for delicate children at Rose Cottage for L.C.C.—Thomas and Edge, Ltd., 52 Macbean Street, London, S.E.18, £97,497 (accepted); Henry Kent (Builders), Ltd., £98,098; H. C. Horswill, Ltd., £99,350; Griggs and Son, Ltd., £100,540; Poolman (Builders), Ltd., £100,784; Croudace, Ltd., £101,860; W. J. Jerram, Ltd., £103,943.

DEMOLITION

Oxford.—Demolition of 97 Blackfriars Road, 1 Bridport Street, 3, 4, 6 and 7 New Street and 76, 77, 85, 86, 87 and 96 Friars Street, and the old Methodist Chapel and house at the rear in New Street, for City Council—Freelance Demolition and Construction Co., Cowley Road, Littlemore, Oxford, £385, and C. Slatter and Son, 8 Roman Road, Wheatley, Oxford, £65 (recommended).

Rowley Regis, Staffs.—Demolition of unfit properties throughout the borough during

1961-62 for B.C.—D. and C. C. Contractors, Delta Works, King Street, Lyre, Stourbridge, £12 10s. per house recommended).

Scunthorpe, Lincs.—Demolition of the former Kendall Memorial Church and 193 and 195 Ashby High Street for B.C.—W. Bee, Ferry Road West, Scunthorpe, £145 (recommended).

Stretford, Lancs.—Demolition of 2, 4 and 6 Trafford Bank Road and 97 Duke Street, for B.C.—M. J. Duffy, Ltd., Manchester, £95 and £45, respectively (recommended).

ELECTRICAL

Bolton, Lancs. — Provision of an electric lift at the Technical College for E.C.—Evans Lifts, Ltd., 52 Corporation Street, Manchester, 2, £5,180 (recommended).

Cardiff. — Electrical re-wiring of pre-war Council houses for City Council: (Group 8) W. Evans, 117 Clodien Avenue, Cardiff, £2,252; (19) Philip R. Alexander, 36 Taff Mead Embankment, Cardiff, £2,287; (16) Economic and Electrical and Mechanical Engineering Co., 16 Quay Street, Cardiff, £1,834; (15) C. K. Manley, Ltd., 110 King George V Drive, Cardiff, £2,464; (2, 3 and 5) Clarke Bros. (Stroud), Ltd., Bath Road, Stroud, Glos., £2,509, £2,483 and £2,164, respectively; (18) James Wilkey and Sons, £2,110; and (1) J. M. Donoghue, 12 Africa Gardens, Maindy, Cardiff, £2,100 (recommended).

Hull.—Electrical installations to (a) Bethune County Primary School, Junior Department; (b) shops and maisonnettes, Boothferry estate, for City Council. Gerald R. H. Wright, deputy city architect—A. Lee, 60 Harrow Street, Kingston-upon-Hull.

Kingston-upon-Thames, Surrey.—Provision of electrical services for the Rivermead County Secondary School for Co. E.C.—Holliday, Hall and Stinson, Ltd., Delta House, Balham High Road, London, S.W.12, £18,736 (recommended).

Newcastle-under-Lyme, Staffs. — Installation of traffic signals at junctions of Friars Street/High Street and Hassell Street/High Street for B.C.—Automatic Telephone and Electric Co., Ltd., Liverpool (recommended). Estimated cost £1,850.

Sunderland, Dur.—Electrical installation at a house in St. George's Square which is to be used for the Borough Architect's Department, for B.C.—Direct Labour, £836.

FENCING

Cardiff.—Fencing the western boundary of Plymouth Great Wood for City Council—Bayliss, Jones and Bayliss, Ltd., 9 Queens Hill Crescent, Newport, £1,307 (recommended).

Dorking, Surrey.—Fencing works at Dorking County School for Co. E.C.—Brads Fencing and Construction, Ltd., Godalming, £449 (recommended).

Hook, Surrey.—Fencing works at Lovelace Playing Field for Co. E.C.—W. A. Skinner and Co., Ltd., Portsmouth Road, Thames Ditton, £953 (recommended).

Kingston-upon-Thames, Surrey. — Erection of fencing at Tiffin Boys' School for Co. E.C.—Groves Fencing Co., Ltd., 6 Station Road, Esher, £465 (recommended).

GAS AND WATER SUPPLY

Birmingham.—Following at Minworth new works for Birmingham Tame and Rea District Drainage Board. R. Vincent Daviss, engineer to the Board: Construction and commissioning of electrically driven rope-hauled distributors, and supply, laying and connection of all necessary cables from the Board's Central Sub-station adjacent to the block of beds—M. B. Wild and Co., Ltd., Argyle Street, Birmingham, 7, £86,460. Work commencing August, 1962.

Supply, and erection of three 1,500 g.p.m. unchokeable-type centrifugal pumping sets; two 140 g.p.m. medium pressure effluent wash water centrifugal pumping sets; three 70 g.p.m. unchokeable-type centrifugal sump pumping sets, with motor control gear, etc.—Lee Howl and Co., Ltd., Tipton Engineering Works, Tipton, Staffs., £9,332 (accepted); The Mirrless Watson Co., Ltd., £12,378; Gwynne Pumps, Ltd., £11,184; The Pulsometer Engineering Co., Ltd., £9,478. Work commencing January, 1962.

Cardiff.—Following for City Council: Erection of a pipe bridge and trunk main across the River Taff at Radyr—Stewart and Llovds, Ltd., Corporation Road, Newport, £4,900; provision of a 10in. diameter water main to Aberthaw Power Station—County Diggers, Ltd., £34,580 (recommended).

Carlisle, Cumb.—Supply and erection of two pumping units at Harraby Booster Station for City Council—Mather and Platt, Ltd., 22 Great Smith Street, London, S.W.1, £7,594 (recommended).

Dorchester.—Construction of a borehole and test pumping at Stinsford Hill, Stinsford, for B.C.—Duke and Ockenden, Ltd., Ferry Wharf, Littlehampton, Sussex, £6,427 (recommended).

Huntingdon and Godmanchester, Hunts.—Construction of water tower at Sapley for B.C.—Thomas Fletcher and Co., Ltd., Forest Road, Mansfield, Notts., £42,579 (recommended, subject to Ministry approval).

Leek, Staffs.—Construction of the Bottomhouse water supply scheme for R.D.C.—Brown Edge Contractors, Ltd., Brown Edge, Stoke-on-Trent, £2,939 (provisionally accepted, subject to Ministry approval).

New Radnor.—New Radnor area water supply for R.D.C., comprising the construction of a stream intake, treatment works and two reinforced concrete service reservoirs and the laying of approximately 16,000 lin. yd. of 4in. and 5in. diameter asbestos-cement water mains, together with incidental works. A. H. S. Waters and Partners, consulting engineers, 25 Temple Row, Birmingham, 2—Asphalt and Public Works, Ltd., Gregory's Bank, Worcester, £72,112 (subject to Ministry approval).

Westbury, Wilts.—Erection of new elevated tank at Chapmanslade for the West Wiltshire Water Board—John Wallis Titt and Co., Ltd., Woodcock Ironworks, Warminster., £1,215.

HARBOURS, PIERS AND SEA DEFENCE WORKS

King's Lynn, Norfolk.—Improvement of the docks gate at the junction of Cross Bank Road and Estuary Road and installation of a 35-ton weighbridge, electrically operated at the Alexandra Bentinck Docks—F. W. Shanks, Ltd., Hunstanton, and W. and T. Avery, Ltd., King's Lynn, respectively.

HEATING AND VENTILATING

Bootle, Lancs. — Central heating, municipal buildings, stages 3 and 4, for B.C.—James Mercer (Preston), Ltd., Burscough Street, Ormskirk, Lancs., £5,909.

East Sussex.—Installation of central heating at the county clinic, London Road, Bexhill-on-Sea, for C.C.—Eldridge and Cluttenden, Ltd., Windmill Road, Silverhill Street, St. Leonards-on-Sea, £1,115 (recommended).

Hull.—Following for City Council: Low pressure hot water heating and kitchen domestic hot water supply installation, Bethune County Primary School, Junior Department—Direct Labour.

Central heating installation, Lincoln Street School and Williamson Street School—F. R. Scott, Ltd., Castle Street, Kingston-upon-Hull, and Humber Heating Co., Ltd., Portland Street, Kingston-upon-Hull, respectively (recommended).

Saffron Walden, Essex.—Installation of hot water systems in 86 houses for B.C.—Rooke and Sons, Ltd., Saffron Walden, £8,313 (recommended); Charles R. James and Co., £8,885; G. L. Gosling and Son, £9,526.

HOUSING SCHEMES

Bolton, Lancs.—Thirty-eight dwellings on the Breightmet neighbourhood unit south for B.C.—Direct Labour (recommended). Estimated cost £58,645.

Bridgwater, Som.—Thirty-four three- and four-storey flats and bed-sitters, 23 lock-up garages, site works, landscaping and demolition of existing properties at West Street, for B.C. J. D. Blacklock, borough architect—George Wimpey and Co., Ltd., Bristol, £88,817. Work to commence June.

Chipping Norton, Oxon. — Four bungalows at Chipping Norton Road, Chadlington, for R.D.C.—A. E. Hobley and Sons, Ltd., North Leigh, £6,278.

Crewe, Ches. — Sixty-four dwellings at Middlewich Street estate for B.C. — Direct Labour, £102,878 (subject to Ministry approval).

Driffield, Yorks.—Four old people's bungalows on the Eastgate North site for U.D.C.—David Naylor and Sons, Driffield, £4,790.

Harpenden, Herts. — Six old people's dwellings at Breadcroft Lane for U.D.C.—Stevenson-Spencer, Ltd., 37 Leyton Road, Harpenden.

Hastings, Sussex. — Seventy-three dwellings and 12 garages on the site of 40 steel houses in the Broomgrove redevelopment area for B.C.—R. Corben and Son, Ltd., 2 Pelham Street, Hastings, £132,686 (recommended, in lieu of previous tender, subject to Ministry approval).

Kirkcaldy, Fifes.—Two hundred and fifty-one houses at Chapel for B.C.—John Best (Contractors), Ltd., 13 Meldrum Road, Kirkcaldy, £432,989.

Larne, Antrim.—Forty-four dwellings and 10 garages and construction of site works and main services at Cloney, Glenarm, for R.D.C. O. N. Wheeler, architect, 9 Donegall Square South, Belfast, 1—Samuel Hunter, Cross Street, Larne, £80,212.

Manchester. — Aerial survey of the Westhoughton overspill site for City Council—B.K.S. Air Survey, Ltd., Leatherhead, Surrey, £37,693 (recommended).

Moira, Down.—Ten bungalows, with site and ancillary works, at Waringstown for R.D.C. J. A. Blakeley, architect, 38 Market Street, Lurgan—Millar and Co., 105a Bridge Street, Portadown, £17,824. Work is expected to start in June.

Old Fletton, Hunts.—Erection of bungalows for U.D.C.—Kell Harris (Contractors), Ltd., 791 Lincoln Road, Peterborough, £11,068.

Stonehaven, Kincardines.—Various trades for 20 two-apartment flats at Christie Crescent for B.C.: Excavator, brick and concrete works—W. J. Brown (Aberdeen), Ltd., Aberdeen, £10,752; roads and footpaths—W. Briggs and Sons, Ltd., Dundee, £1,193; carpenter, joiner and ironmonger works—Robert Thomson and Sons, Ltd., Stonehaven, £10,980; roof tiler and roughcast work—Archibald Watt, Aberdeen, £1,896; plumber work—W. Christie, Stonehaven, £2,741; lath and plaster work—Doric Construction Co., Ltd., Aberdeen, £2,120; electrical work—G. C. Stenson and Co., Ltd., Laurencekirk, £1,595; painter work—James F. Gray, Aberdeen, £933; glazier work—James Rhind, Aberdeen, £253.

Portadown, Armagh.—Following for B.C.: (1) Seventy-six dwellings at Brownstown Road, comprising 36 flats, 28 houses and 12 bungalows; (2) eight houses at Armagh Road, together with certain ancillary works in each case. D. Smith, borough architect—(1) and (2) Collen Bros., Ltd., Hanover Street, Portadown, £139,891 and £15,241, respectively (accepted): (1) P. Carvill and Sons, Ltd., £154,097; Calvert Bros., Ltd., £155,181; (2) D. S. Gray, £16,200; P. Carvill and Sons, Ltd., £19,706.

Twenty-two flats in three blocks, together with certain ancillary works, at Armagh Road—Collen Bros, Ltd., Hanover Street, Portadown, £39,287 (accepted); P. Carvill and Sons, Ltd., £45,000; R. Uprichard and Sons, £47,246; Farrans, Ltd., £50,091; Tredagh Building Co., Ltd., £50,550.

Reigate, Surrey. — Fourteen dwellings at Welton Flower Gardens, London Road, Redhill, for B.C.—Pitman Bros, Ltd., South Merstham, £27,096 (accepted); H. G. Winteridge and Co., Ltd., £29,542; Mitchell (Chipstead), Ltd., £29,575; Hassocks Properties Development Co., Ltd., £51,556; Williams Bros. (Carshalton), Ltd., £54,492. C. A. G. Wicks, borough architect and George G. Sanderson, borough engineer. Work about to commence.

Rowley Regis, Staffs.—Eighty-eight dwellings and 53 garages at Bury Hill estate for B.C.—Direct Labour (recommended, subject to Ministry approval).

Surrey.—Erection of principals' house at Merrist Wood Farm Institute for Co. E.C.—A. Cavey (Bisley), Ltd., Guildford Road, Bisley, £4,950 (recommended).

Wainford, Suffolk.—Eight houses at Flixton, near Bungay for R.D.C. Piper, Whalley and Partners, architects, 6 St. Mary's Street ,Bungay — Blackburns (Harleston), Ltd., Harleston, Norfolk, £15,747 (accepted); W. Ames, Ltd., £15,872; Wm. C. Reade of Aldeburgh, Ltd., £16,354; Alan R. King, £16,825. Work about to commence.

Wantage, Berks. — Twenty-four Homeville traditional houses and flats at Oxford Lane and eight Homeville traditional houses at Townsend, Grove, for R.D.C.—J. P. Barrett and Sons, Ltd., West Hanney, Wantage.

MATERIALS AND SUPPLIES

Barrow-in-Furness, Lancs. — Supply of 800 galvanised dustbins with rubber lids for B.C.—T. Marshall and Son, Ltd., Wellington Bridge, Leeds, 12, £1 16s. each net (recommended).

Cardiff.—Supply of 240 No Cycling signs for City Council—Skelton-Thomas Signs, Ltd., Water Street, Port Talbot, £947 (recommended).

Carlisle, Cumb.—Supply of wooden windows for the Civic Centre for City Council—Cawood, Wharton and Co., Ltd., Sunlight House, Quay Street, Manchester, 3, £23,838 (recommended).

Wilton, Wilts.—Supply of 100 Yewco Major galvanised dustbins for B.C.—Metal Agencies, Ltd., Avon Works, Winterstoke Road, Bristol, 3, £139 (recommended); W. Dibben and Sons, Ltd., £153; Salisbury Timber Co., Ltd., £152; Kennedy's, Ltd., £156; Woodrow and Co., Ltd., £142.

PLANT AND MECHANICAL TRANSPORT

Bishop's Castle, Salop. — Supply of a Karrier Bantam diesel engine refuse collection vehicle for B.C. — Rootes, Ltd., Small Heath, Birmingham, 10, £1,109 (subject to Ministry approval).

Bolton, Lancs.—Supply of following for B.C.: mobile crane—F. Taylor and Sons (Manchester), Ltd., 138 Bolton Road, Manchester, 6, £5,514; Atkinson bulk load continuous salter and gritter — Atkinson Agricultural Appliances, Ltd., Clitheroe, £483; Karrier dual tipping refuse collector fitted with bin-lifting equipment, and bin-lifting equipment to be fitted to the existing dual tipping refuse collecting vehicle—Rootes, Ltd., Manchester, £3,048 and £710, respectively; three David Brown 850 implematic tractors—Barton Motors (Preston), Ltd., Corporation Street, Preston, £1,974 (recommended).

Carlisle, Cumb. — Supply of a 3-ton Morris tipping lorry for City Council—Graham and Roberts, Ltd., Botchergate, Carlisle, £1,178 (recommended).

Dagenham, Essex. — Supply of two rollers for B.C.—Thomas Green and Son, Ltd., New Surrey Works, Southwark Street, S.E.1, £1,041, and Aveling-Barford, Ltd., Invicta Works, Grantham, Lincs., £1,515, respectively (recommended).

Edinburgh.—Supply and erection of two 10-ton capacity travelling cranes at Leith Docks for the Commissioners—Babcock and Wilcox, Ltd., 145 St. Vincent Street, Glasgow, C.2, £78,078.

Oxford. — Supply of the following for City Council: One 3-ton Austin dropside truck —Hartwells Garages, Ltd., Park End Street, Oxford, £791; one 18 cu. yd. Karrier transport dual top refuse collector—G. R. Hartwell, Ltd., Horse Fair, Chipping Norton, £2,156; two Morris commercial 3-ton end-tipping lorries with petrol engines —Morris Garages, Ltd., Oxford, £1,042 each (recommended).

PLAYING FIELDS, PARKS, ETC.

Bolton, Lancs. — Preparation of playing fields at St. Patrick's R.C. Primary School for E.C. — Maxwell M. Hart (Glasgow), Ltd., 74 Corporation Street, Manchester, 4, £3,300 (recommended).

Guildford, Surrey.—Construction of tennis court at Guildford County Girls' School for Co. E.C.—W. and J. Glossop, Ltd., 123 East Hill, London, S.W.18, £1,745 (recommended).

Kingston-upon-Thames, Surrey. — Layout of playing field at Hampton Court Way for Tiffin Boys' School for Co. E.C.—Grassphalte, Ltd., 90 High Street, Hampton Hill, Middx., £4,574 (recommended).

Ramsbottom, Lancs.—Resurfacing of two existing tennis courts with bituminous macadam at Nuttall Park for U.D.C.—Maxwell M. Hart (Glasgow), Ltd., Chronicle Buildings, Corporation Street, Manchester, 4.

ROADS, BRIDGES AND SITE WORKS

Ayrshire.—Construction of a new bridge and approaches over the Lugar Water on the Ochiltree - Auchinleck Road for C.C.—Murdoch McKenzie, Ltd., 10 Draffen Street, Motherwell, £59,694.

Ballyclare, Antrim. — Reconstruction of approximately 160 lin. yd. of 18ft. carriageway, the resurfacing of approximately 7,000 sq. yd. in bituminous macadam, and surface dressing approximately 17,000 sq. yd. for U.D.C.—Ramsey Bros., Broughshane, Co. Antrim, £2,790 (accepted); Hendly Bros., £2,879; Moore Bros., £2,890. Work is expected to start in June.

Banbury, Oxon. — Construction of roads, sewers and footpaths for new estate at New Road, Milcombe, Bloxham, for C. and W. Montague, Ltd.—Farmiloe and McVie, Ltd., 10 High Street, Welwyn, Herts.

Barrow-in-Furness, Lancs. — Following for B.C.: Surface-dressing work and heating and planing of highways during the current year —N. E. Box and Co., Ltd., Hartington Road, Broadheath, Altrincham, and Norman W. Dunn and Co., Ltd., Dunnington Station, Dunnington, Yorks., respectively.

Barry, Glam.—Road works in connection with the Lakeside improvement scheme for B.C. —R. C. Hillman, Ltd., Glanllyn Square, Taffs Well, Cardiff, £4,021 (recommended).

Cardiff.—Completion of roads and footways at Neyland Close, Ely, for City Council—Merlin Woodward Construction Co., Ltd., 20 Waunrhyd Road, Tonyrefail, Porth, £1,461 (recommended).

Cheadle, Staffs.—Construction of a car park at Greyhound Field for R.D.C. — Site Development, Ltd., Newcastle, Staffs., £7,810.

Dorking, Surrey. — Construction works at South Street Car Park for U.D.C.—Roadways and Car Parks, Ltd., 174-176 Twickenham Road, Isleworth, Middx., £4,107. Work to commence in two months.

Haywards Heath, Sussex.—Construction of roads, sewers and footpaths for new estate at Finches Park, Hickmans Lane, Lindfield, for Land and General Developments, Ltd.—Farmiloe and McVie, Ltd., 10 High Street, Welwyn, Herts.

Merthyr Tydfil, Glam. — Surface dressing of carriageways, year 1961-62, for B.C.—W. and J. Glossop, Ltd., 9 Court Road, Bridgend, £7,500. Work to commence June.

Middleton, Lancs. — Making-up of Clifton Road, comprising approximately 880 sq. yd. of carriageway, footways and verges, together with drainage works, for B.C.—M. C. Kennedy and Co., Ltd, 503 Corn Exchange Buildings, Manchester, 4.

Monmouth.—Roadwork, 1961-62 programme, for B.C.—Wm. Adams and Co., Moderator Wharf, Newport (recommended).

Newark, Notts.—Construction of a car park at Newcastle Gardens and reconstruction of Tolney Lane (part) for B.C.—City Construction Co., £12,402.

New Malden, Surrey. — Tarpaving works at Christchurch C. of E. Primary School for Co. E.C.—W. H. Gaze and Sons, Ltd., 19-23 High Street, Kingston-upon-Thames, £2,693 (recommended).

Oxford. — Resurfacing of Windmill Road, Garsington Road, Hollow Way, Western Road, Grandpont, Charles Street, Magdalen Road, Marlborough Road, Parks Road, St. Michael's Street and Oriel Square for City Council—Direct Labour (recommended). Estimated cost £12,000.

Peterborough.—Laying of paving slab paths at Eye as follows for R.D.C.: (Group 1) Eyebury Road, six houses, Eyebury Street, 16 houses; (2) Crowland Road, 12 houses; (3) Northam Road, 16 houses, Northam Terrace, eight houses—G. Matthews and Son, 64 High Street, Eye, Peterborough, £1,092 (accepted); Kell Harris (Contractors), Ltd., £1,477; A. H. Lewis, Ltd., £2,107.

Portsmouth, Hants.—Reconstruction of Burrfields Road, from Eastern Road to Dundas Lane, for City Council—Direct Labour (recommended). Estimated cost £40,000.

Prestwich, Lancs.—Construction of a service road to the Downham Crescent housing site, including drainage and ancillary works, for B.C. J. Theo. Kilner, borough engineer—T. J. Murphy, Ltd., 113 Radcliffe New Road, Whitefield, Lancs. Work hoped to commence in one month.

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Rowley Regis, Staffs. — Following for B.C.: Heating and planing of the carriageway at Oldbury Road—Road Surfacing Co., Ltd., 241 Hagley Road, Edgbaston, Birmingham, 16, 8d. per square yard per cut (recommended, subject to C.C. approval).

Heating and planing of the carriageway of Halesowen Street—Road Surfacing Co., Ltd. (recommended, extension of contract).

Southend-on-Sea, Essex. — Provision of soil cement stabilising and drainage works for the western area development, extension of marshalling apron and the new eastern taxiway at the Airport for B.C.—H. Boot and Sons (Civil Engineering), Ltd., Storforth Lane, Chesterfield, Derbys., £163,685 (recommended).

Southgate, Middx.—Pymmes Brook improvement scheme, Green Lanes to Bowes Road, for Lee Conservancy Catchment Board, comprising: (a) Construction of about 4,350ft. of mass concrete open channel of widths varying from 16ft. 9in. to 19ft. across the invert, and heights from 8ft. 8in. to 10ft. 8in.; (b) construction of a 15in. diameter foul sewer inverted siphon under Deadmans Bridge, Green Lanes, and the removal of the existing siphon; (c) construction of two precast footbridges; (d) underpinning of about 152 lin. ft. of the abutments to Deadmans Bridge; (e) demolitions, filling, soiling, seeding, fencing, and other appurtenant works. N. Medrington, engineer to the Board—Farrow, Ltd., Highfield Road, Golders Green Road, London, N.W.11, £294,063. Work about to commence.

Stratford-upon-Avon, War. — Construction of roadworks and laying of sewers and water mains for the extension of Masons Road for B.C.—Norman W. Dunn and Co., Ltd., Bromsgrove, £6,655 (recommended).

Sunbury-on-Thames, Middx.—Widening and construction of carriageway and footpaths at Manygate Lane, Shepperton, for U.D.C. —Sparkes (Construction), Ltd., Spring Road, Feltham, £17,087. Work commencing this month.

Sunderland, Dur.—Construction of garage access roads at Bayswater Avenue and Bradshaw Street, Town End Farm, for B.C. —Direct Labour, £2,207 (recommended).

Sunderland, Dur.—Construction of roads and sewers at Town End Farm estate for B.C. —Direct Labour, £103,414 (recommended, in lieu of previous tender).

Ventnor, I. of W. — Making-up of a service road, Leeson Road, including the provision of kerbing, footpath and carriageway, for U.D.C.—Cheek Bros., Ltd., 1 Church Litten, Newport, I. of W., £1,788 (accepted); Vectis Stone Co., £1,898; Westridge Construction Co., Ltd., £2,214.

Wednesbury, Staffs. — Surface dressing of carriageways, 1961-62, for B.C.—W. and J. Glossop, Ltd., 123 East Hill, London, S.W.18 (recommended).

Whitstable, Kent. — Making-up and sewering of Valkyrie Avenue (part) for U.D.C., comprising construction of concrete carriageway, 2in. artificial stone paving footways, grass verges and the construction of a surface water sewer—Bowzell, Ltd., Dover Road, Walmer, Deal, £8,581 (subject to Ministry approval); Barton Construction Co., £10,128; Richard Costain, Ltd., £14,557; J. W. Ellingham, £10,106.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bolton, Lancs.—Second stage for reconstruction of the Maxfield Street sewer for B.C. —Direct Labour (recommended) Estimated cost £16,000.

Bridport, Dorset.—Construction of a 21in. foul water sewer from Long's Lane to East Road, for B.C.—Leonard Fisher, Ltd., Somerset House, Fore Street, Chard, Som., £5,580 (recommended).

Carlisle, Cumb.—Draining, levelling and seeding of land adjacent to Borrowdale Road for City Council—Direct Labour (recommended, subject to Ministry approval). Estimated cost £2,500.

Chislehurst and Sidcup, Kent. — Foul sewer extension at Leesons Hill for U.D.C., comprising the construction of 960 lin. yd. of 9in. foul sewers and 1,200 lin. yd. of 6in. and 4in. foul drains, together with manholes, inspection chambers, and ancillary works. W. B. Farrow, engineer and surveyor—M. Keane and Sons, 72 Lenham Road, Sutton, Surrey, £10,895. Work commencing July.

Daventry, Northants.—Construction of the Everdon and Welton sewerage schemes for R.D.C.—M. J. Irwin, Ltd., 4 Highland Road, Coventry, £66,706 (recommended).

Docking, Norfolk. — Sanitary improvements to 12 houses at Lynfield and Pond End, West Rudham, for R.D.C.—R. G. Gower and Son, Sunnyside, Church Lane, Heacham, King's Lynn, £6,065.

Horley, Surrey.—Drainage of playing fields at Horley County Secondary School for Co. E.C.—Kinman (Contractors), Ltd., 4 The Broadway, London, W.6, £1,277 (recommended).

Kingsclere and Whitchurch, Hants. — Construction of a sewer at Tadley for R.D.C. —W. T. Nicholls, Ltd., St. Pauls Road, Gloucester, £52,489.

Melford, Suffolk. — Glemsford, Hartest and Boxted sewerage scheme for R.D.C., comprising the construction of approximately 11,500 lin. yd. of 15in., 9in. and 6in. diameter sewers, two pumping stations, approximately 4,000 lin. yd. of 4in. diameter rising mains, and a sewage disposal works consisting of a sedimentation tank, biological filters, humus tanks, works pumping station, sludge beds, access roads, paths, and ancillary works. Sandford Fawcett and Partners, consulting engineers, 53 Victoria Street, London, S.W.1 — Cubitt and Gotts, Ltd., Westerfield, Ipswich, £131,003.

Oxford.—Construction of the Barton outfall relief sewer scheme for City Council—Kottler and Heron, Ltd., Cliftonville, Northampton, £36,537 (recommended).

Pocklington, Yorks.—Pocklington and Barmby Moor sewerage scheme, contract 1, for R.D.C. John H. Haiste and Partners, civil engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6—H. O. Andrews, Ltd., 408 Oakwood Lane, Leeds, 8, £146,803 (accepted provisionally, subject to Ministry approval). Work expected to commence in June.

Rotherham, Yorks. — Slade Hooton sewage disposal works reconstruction for R.D.C. G. W. Roddis, engineer and surveyor—West Riding Building Contractors, Ltd., Morthen Road, Thurcroft, near Rotherham, £117,885. Work commenced.

Scarborough, Yorks.—Reconditioning sewer at St. Nicholas Street for B.C.—Mowlem-Centriline, 123 Victoria Street, London, S.W.1, £5,887 (recommended, subject to Ministry approval).

Tiverton, Devon.—Sewerage and sewage disposal, contract 1, for R.D.C., comprising the laying of about 1,250 lin. yd. of 9in. and 15in. diameter sewers, together with the construction of concrete manholes and all ancillary works. Harvey, McGill and Hayes, consulting engineers, 8 Richmond Road, Exeter—C. P. Unwin and Sons, Ltd., 33 St. Peter Street, Tiverton, £25,451 (accepted); Devon Contractors, Ltd., £26,077; James Dennis and Son, Ltd., £26,552; Wm. J. Clemens and Co., Ltd., £27,587.

Wellingborough, Northants. — Improvements to sewage treatment works at Wollaston for R.D.C.—Brooks and Johnson, Ltd., Abingdon Grove, Northampton, £44,051.

York. — Main drainage, contract 9, at the Naburn sewage disposal purification works for City Council — Harbour and General Works, Ltd., St. Stephen's House, London, S.W.1, £195,925.

STREET LIGHTING

Dagenham, Essex. — Provision of switches, lamps, island refuges and mains services, and re-siting and installation of equipment in connection with improved street lighting at Rainham Road South for B.C.—Eastern Electricity Board, £2,049 (recommended).

Redcar, Yorks.—Erection of fluorescent lighting units on the Coatham enclosure access road and promenade extension for B.C.—A.E.I. Lamp and Lighting Co., Leeds. Work commencing June.

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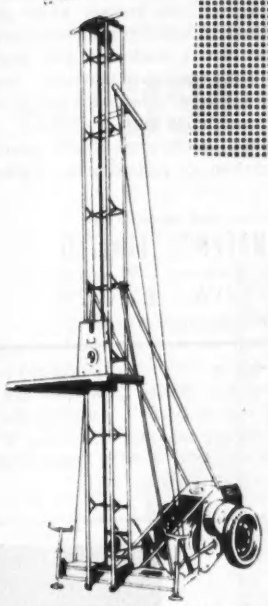

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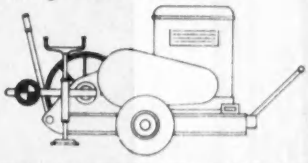

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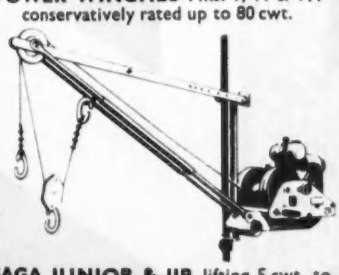

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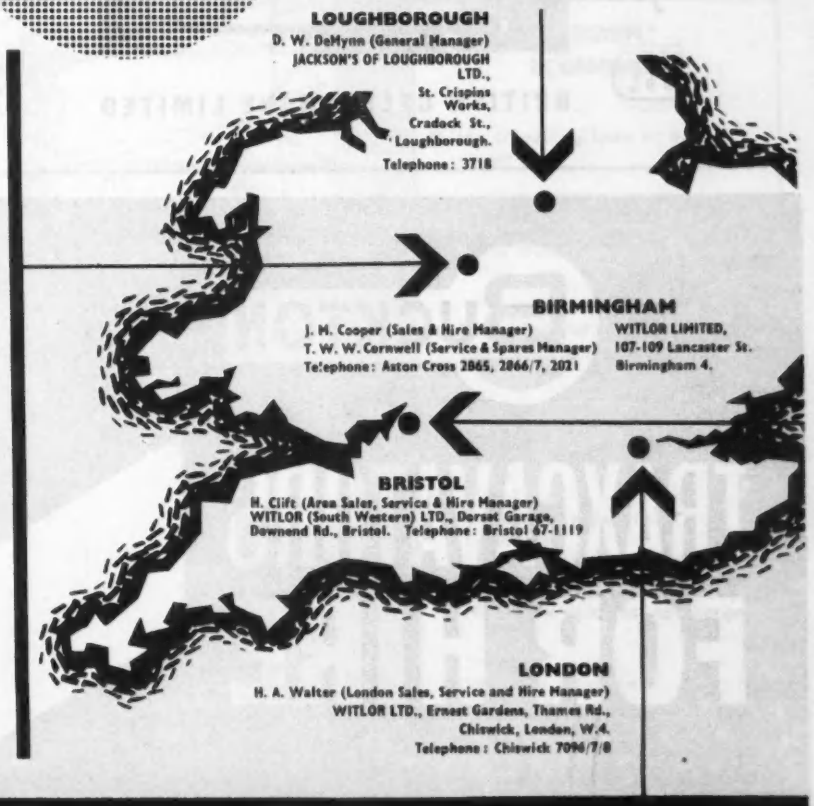

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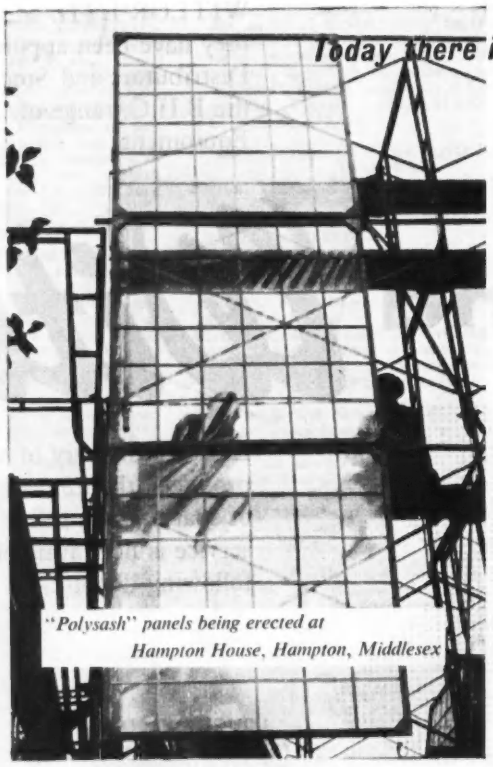

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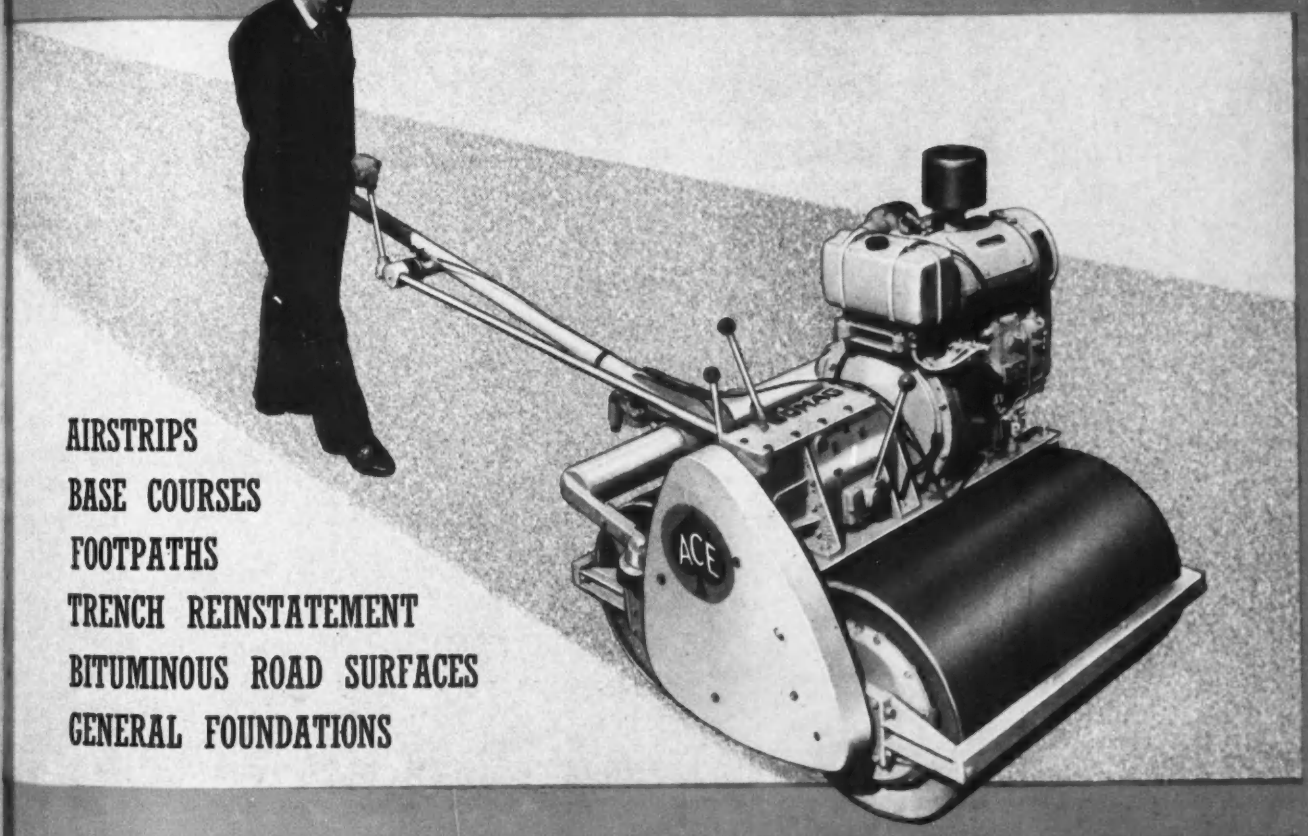

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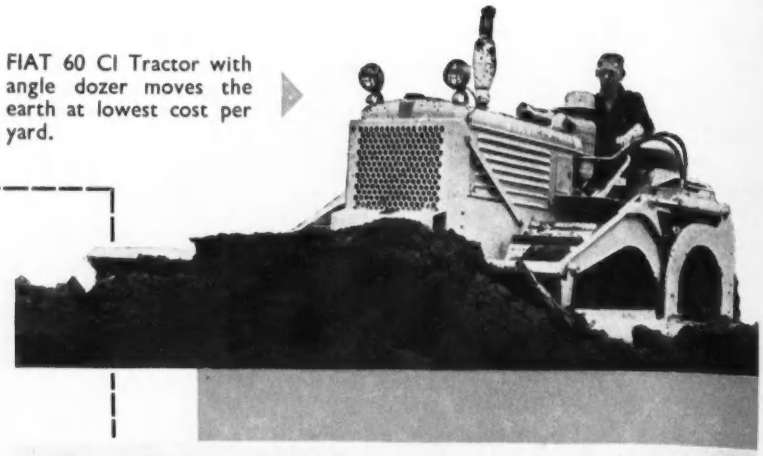

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(Continued from page 960)

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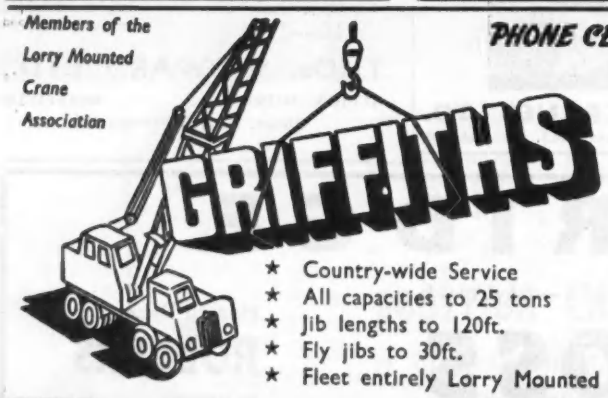

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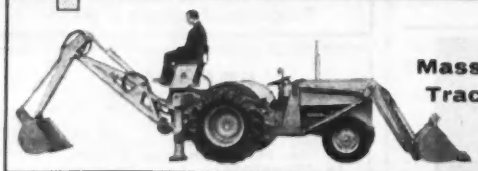

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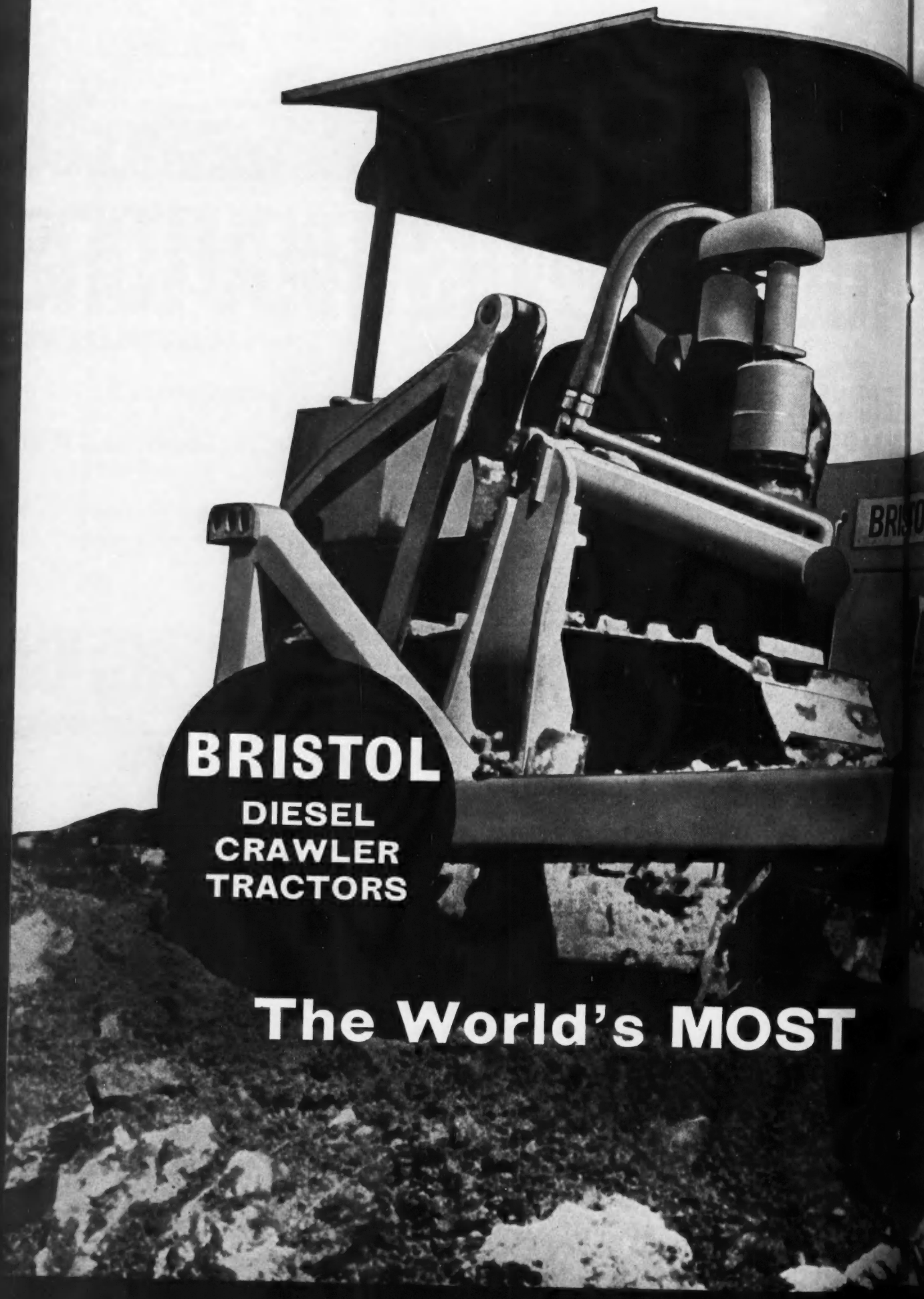
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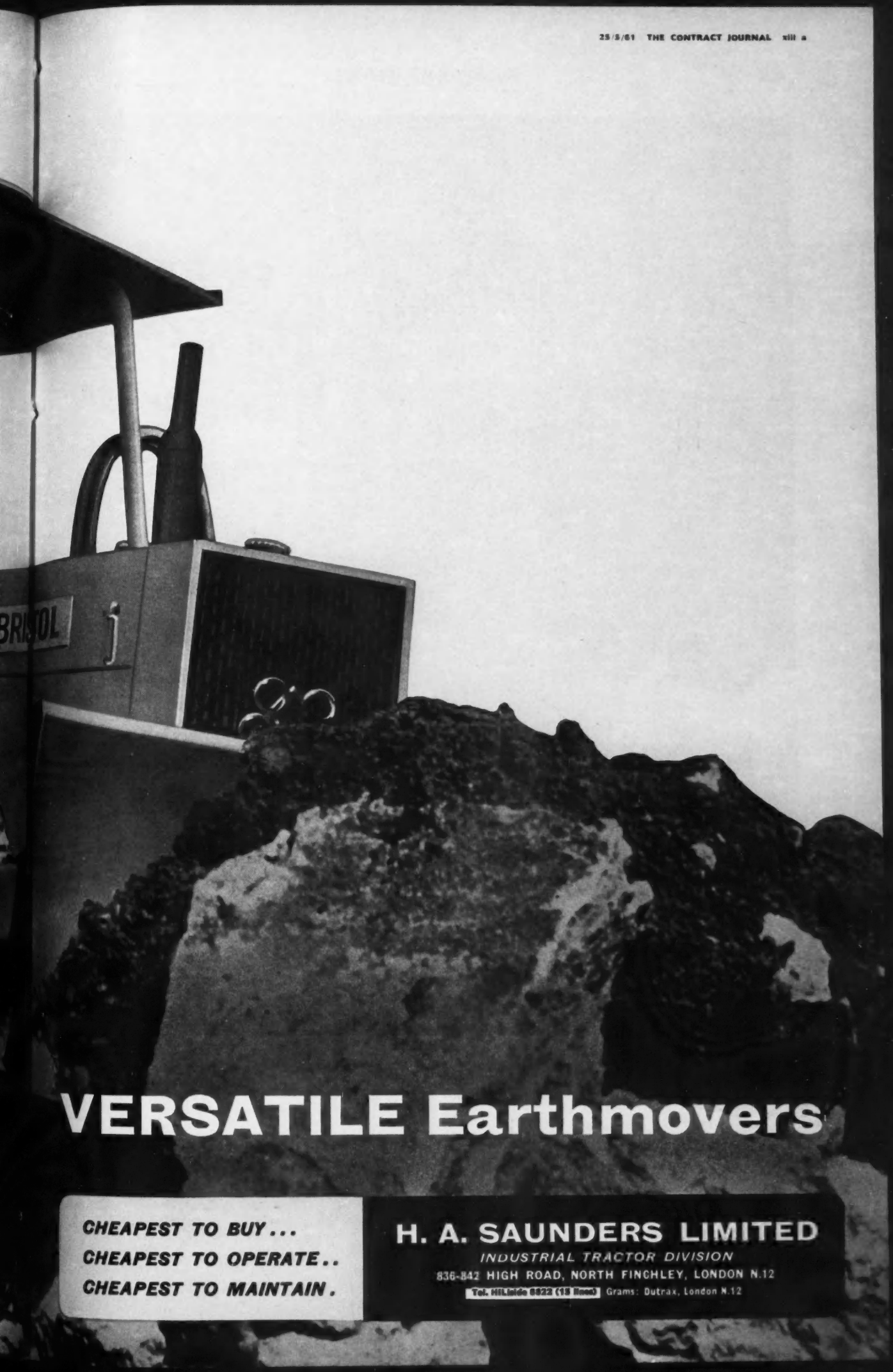
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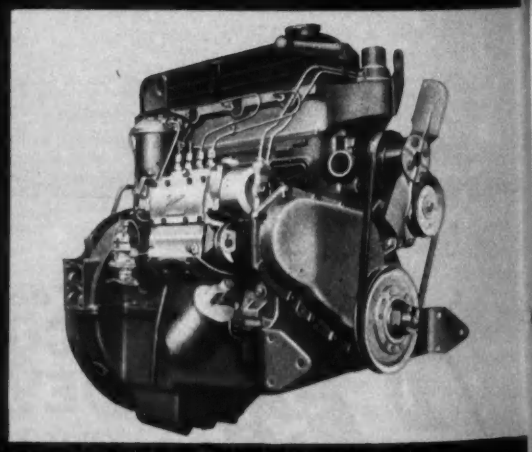

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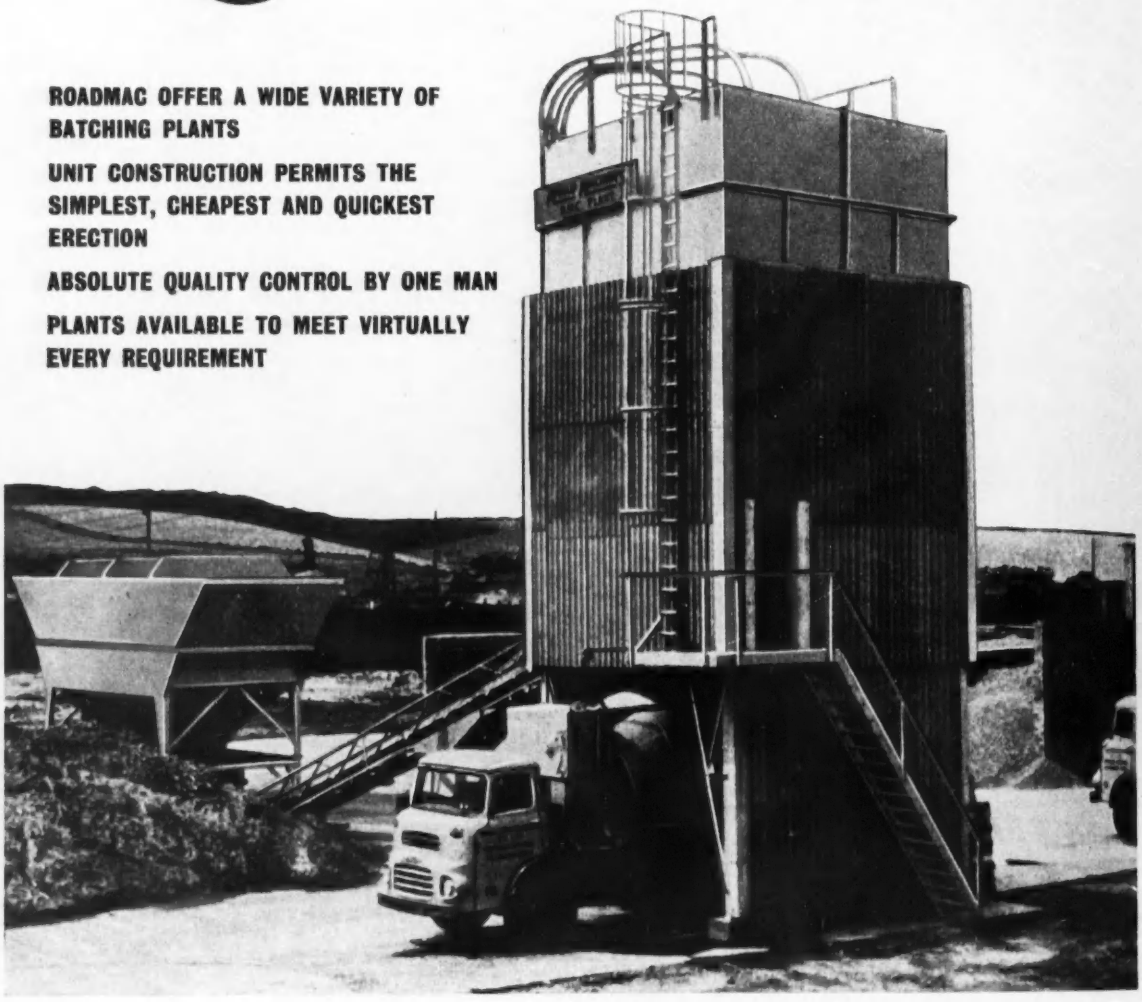

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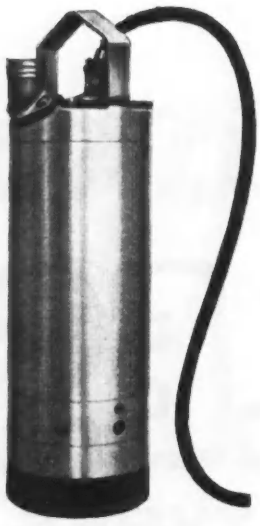

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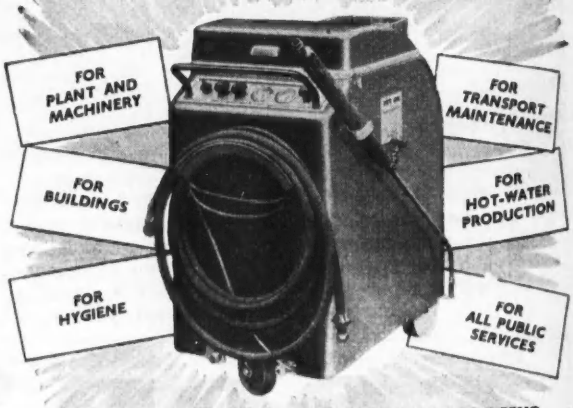

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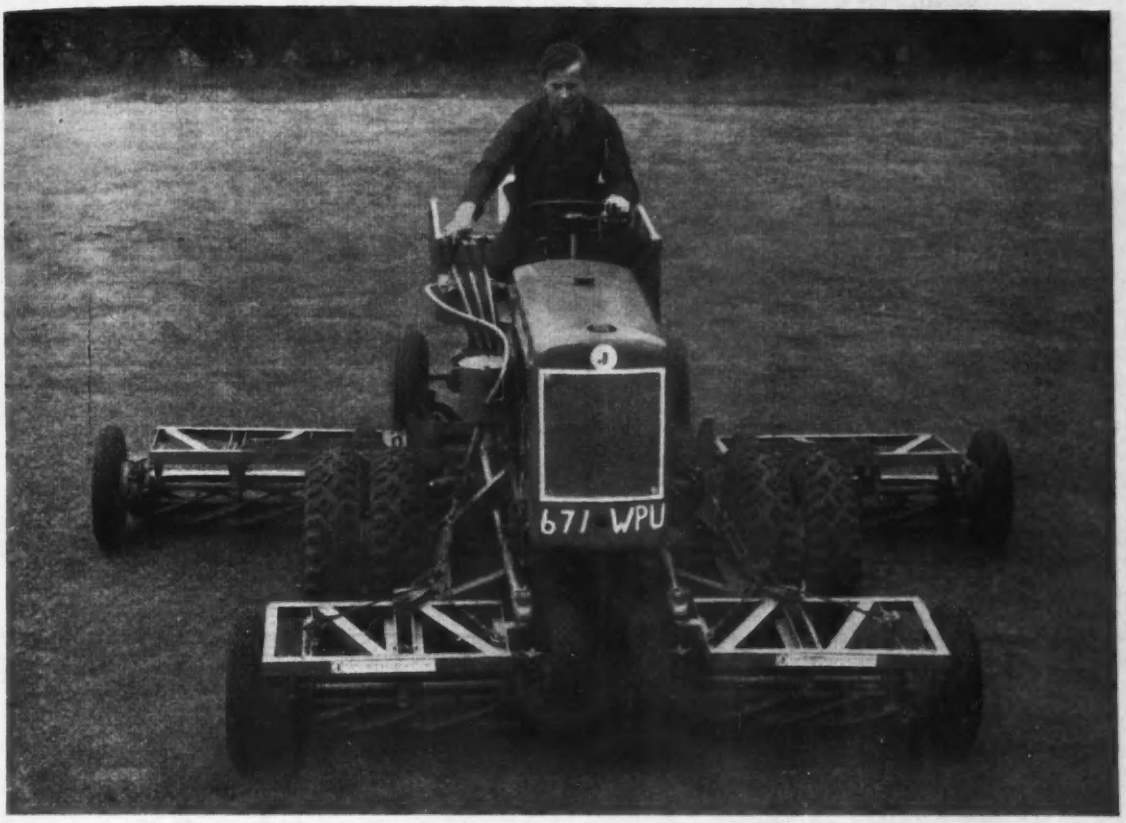

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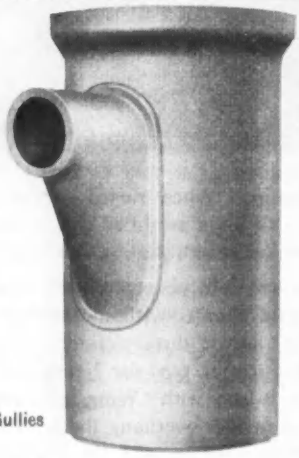

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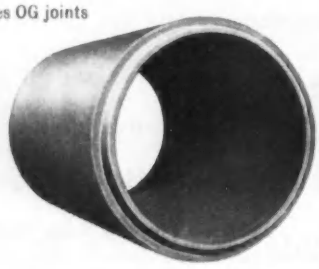

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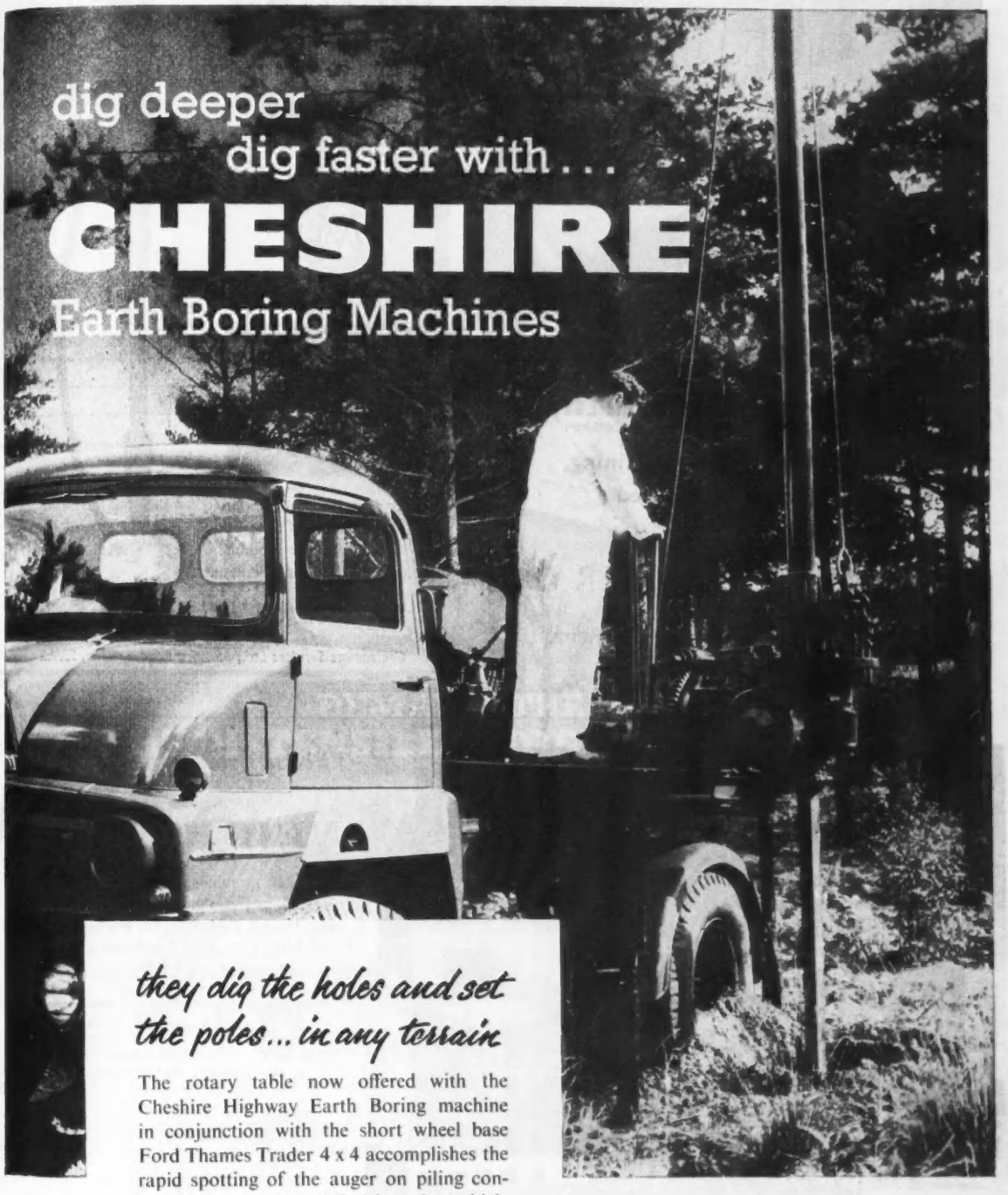

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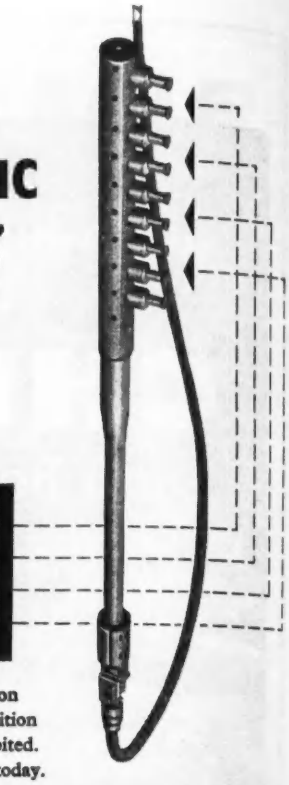

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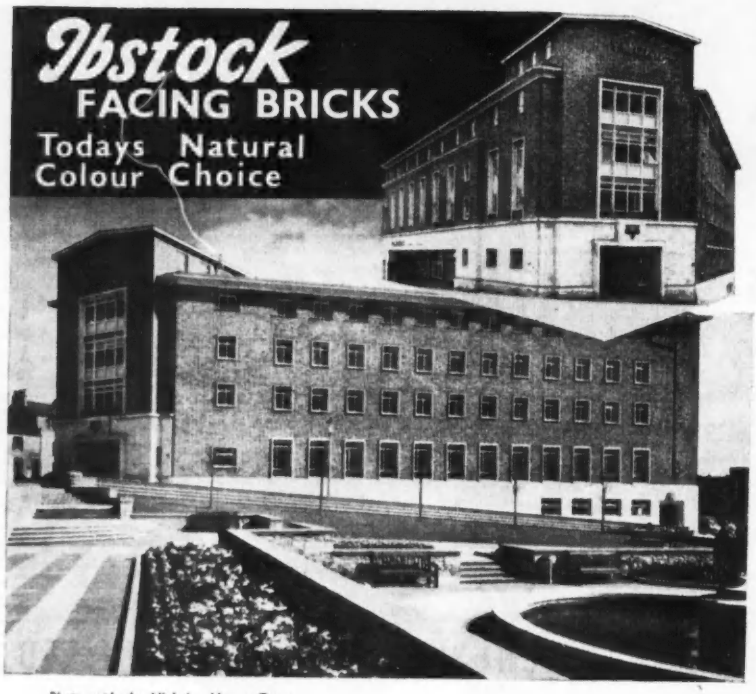

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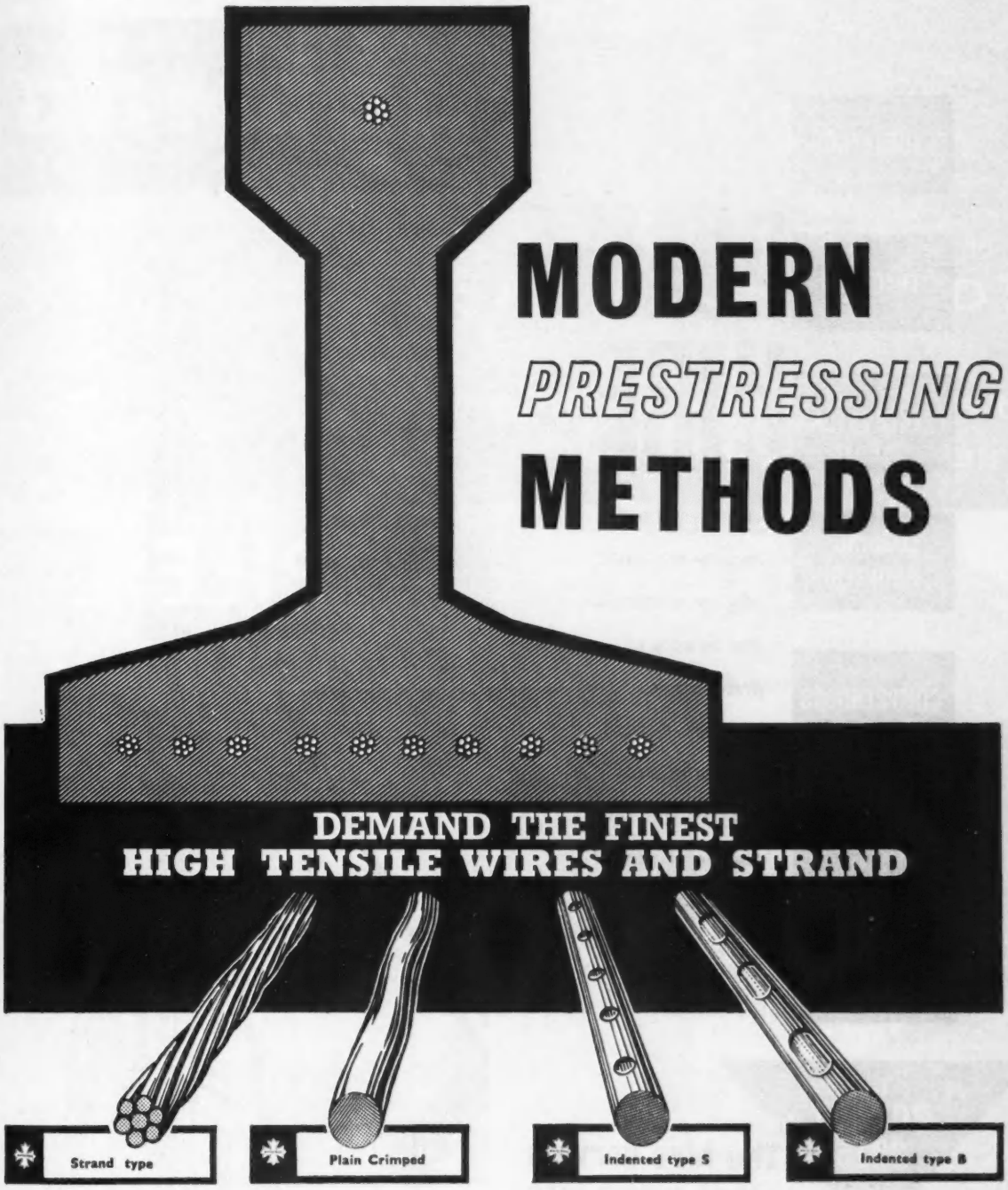

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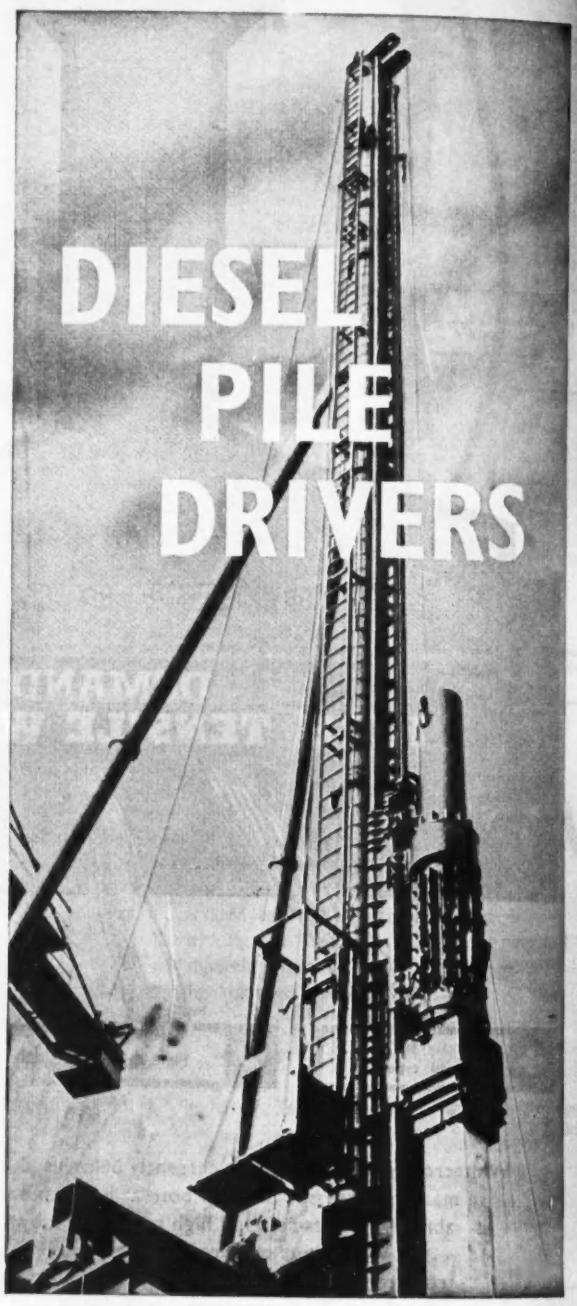

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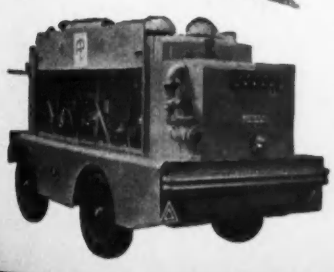

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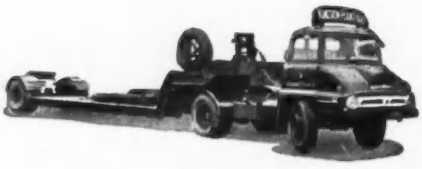

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ASPHALT & TARMACADAM PLANT

Photograph by courtesy of Limmer & Trinidad who own six of these plants

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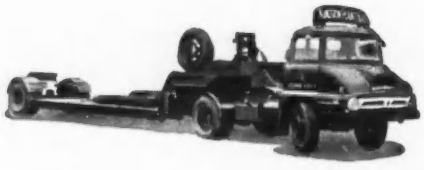

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THE CONTRACT JOURNAL
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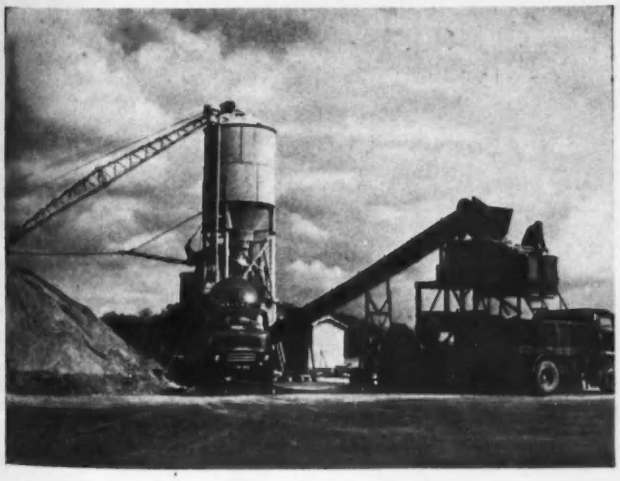
180 TONS PER HOUR



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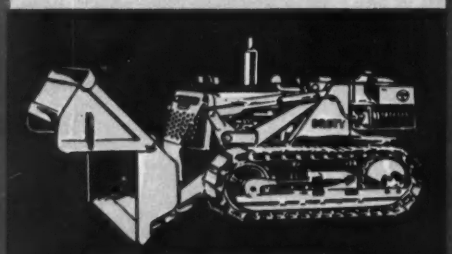
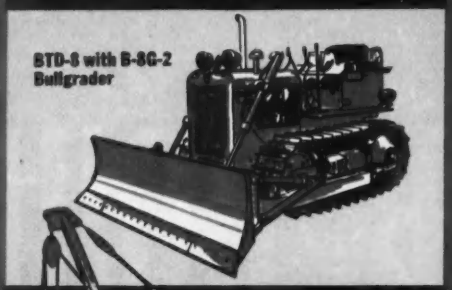
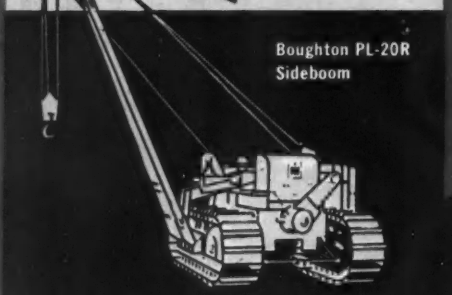
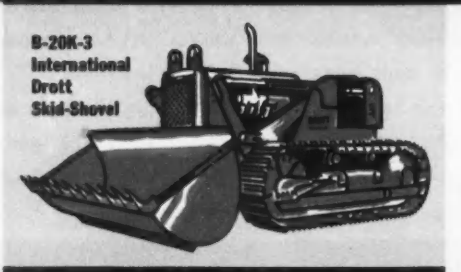


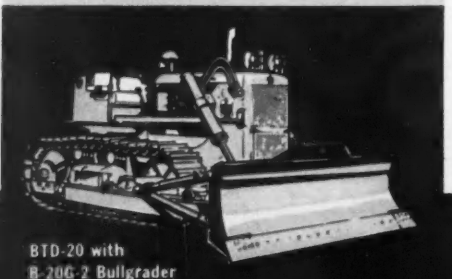
B-6K-3 International Drott (4-in-1)





Boughton PL-20R
Sideboom





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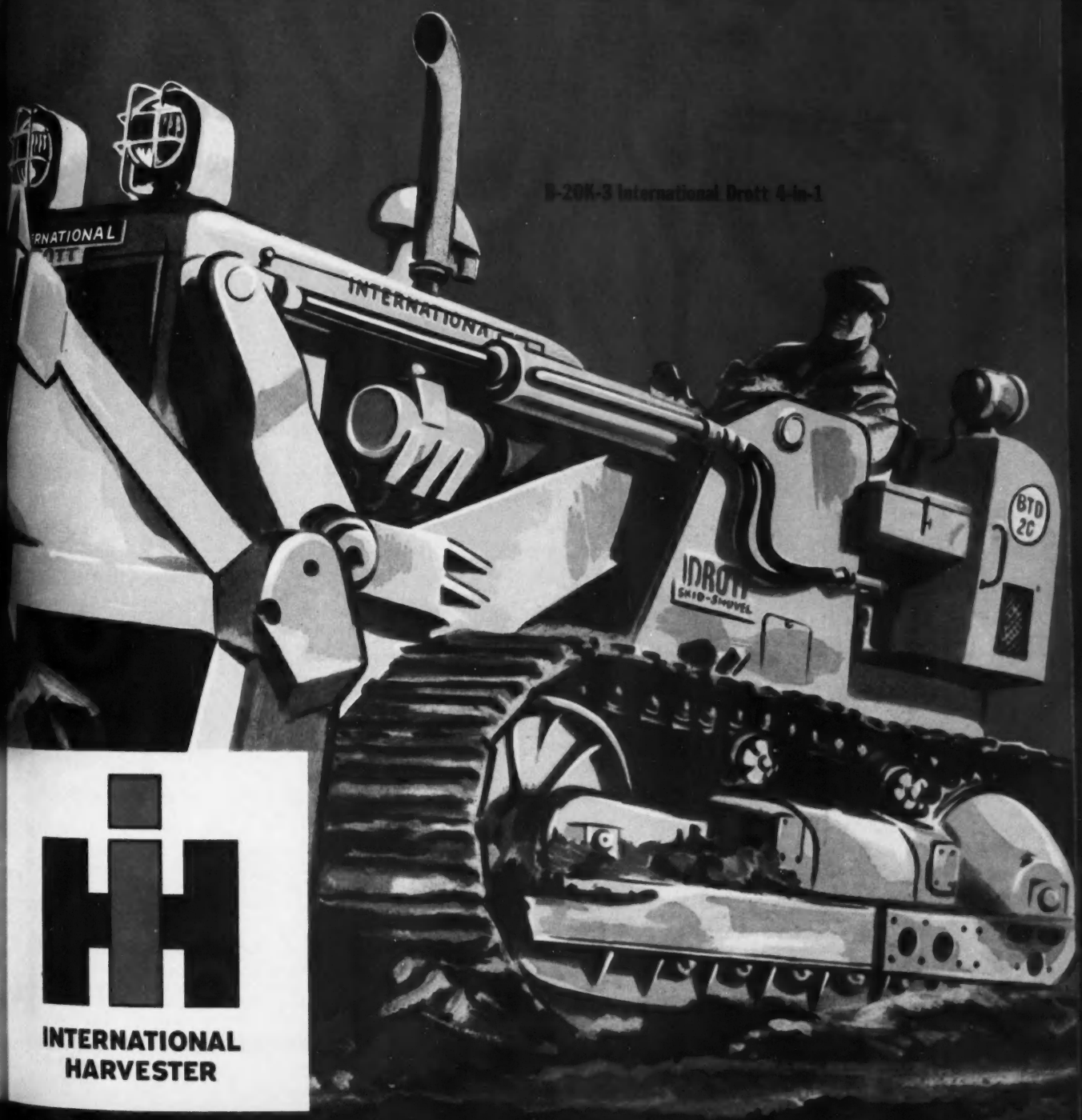

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No ordinary scraper/dozer combination this, it's the ideal unit for the smaller contractor and builder, with staying power for big jobs, manoeuvrability for small ones and round-the-clock availability. The T.M.2. open bowl scraper takes full advantage of the Track-Marshall's 55 b.h.p. and 14,000lb drawbar pull; its centre of gravity is directly over the cutting edge for faster digging, yet low enough to provide maximum scraper stability however rough the going. The Marshall Angledozer too, is built for peak performance and quick, simple adjustment but that's only to be expected, for the complete team — crawler, scraper and dozer — have been designed to work together from the word go!

the team that's

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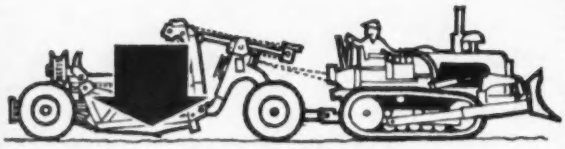
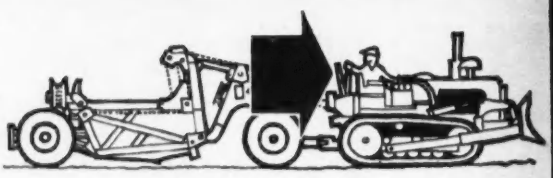


WEIGHT MADE TO WORK

The scraper's weight is concentrated over cutting blade: loads are dug faster. Heaped capacity, 5.62 cubic yards.



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Use it first for curing

MIDDLESBROUGH CORPORATION use 'Visqueen' as a curing membrane because it traps moisture, eliminates watering, improves compressive strength and abrasion resistance and protects the green concrete against rain.

Here, 'Visqueen' is curing a concrete foundation slab prior to asphalting on a section of the Longlands road improvement of the Middlesbrough/Redcar road. The same 80 yd. length of 'Visqueen' sheet was then rolled up and used again further along the road as an underlay beneath the reinforced concrete slab. In this way, nearly all of the 34,000 sq. yds. of 'Visqueen' used on this site was put to work twice, thus halving the already low material cost.

Highways Authority: Middlesbrough Corporation, Construction by Direct Labour Dept. Borough Engineer: J. A. Kenyon, M.I.C.E., M.I.Mun.E., M.T.P.I.

Re-use it as an underlay

BRISTOL CORPORATION use 'Visqueen' as an impermeable underlay because it prevents moisture and fat from draining out of the mix, resulting in considerable savings in cement. The sheeting also protects the road slab against acidic attack from the heavy sulphate concentration in the district.

Bristol Corporation have been using polythene for several years both as a curing blanket and an underlay in their road construction programme. The sheeting is also widely used to protect green concrete from heavy rainfall.

'Visqueen' is available in various standard widths up to 12 ft. and can be specially ordered up to 24 ft. wide to fit casting widths. Man like working with 'Visqueen' because it can be quickly unrolled, is light and easy to handle and its wide roll widths mean time saved in laying compared with other conventional materials. And remember, 'Visqueen' sheeting suitable for concrete road work costs less than ½d. a sq. ft.

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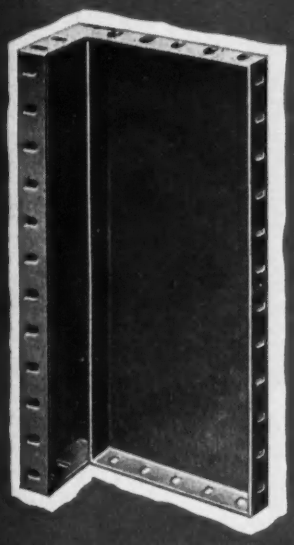


INTERNAL CORNER PANEL

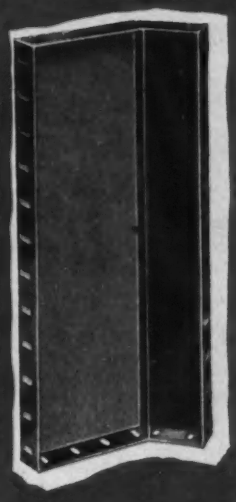
Used to form a 90° internal angle at the junction of two vertical walls; or horizontally, at the junction of walls, floors and beams.

Size	approximate weight in lbs.
36" x 12" x 6"	30
24" x 12" x 6"	20½
24" x 6" x 6"	14½

135° SPLAYED CORNER PANEL

Used to form 135° internal splay at the junction of two vertical walls; or horizontally at the top of walls. Sometimes used as a chute for placing concrete. External splay panel also available.

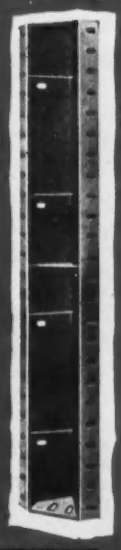
Size	approximate weight in lbs.
24" x 8" x 4"	16 (External)
24" x 8" x 4"	15 (Internal)



CORNER POST Standard Types

The 6" x 6" corner post illustrated was recently developed to give strength and simplify the arrangements of panels and channels at 90° wall returns. A 3" x 3" corner post is also available.

Size	Approximate weight in lbs.
48" x 3" x 3"	16½
36" x 3" x 3"	12½
72" x 6" x 6"	50
48" x 6" x 6"	34



HOPPER CORNER PANEL

This panel has been designed for use in the construction of Hopper Tanks with faces sloping at 60°. The panel is used with standard panels and eliminates the necessity for special timber corner pieces.

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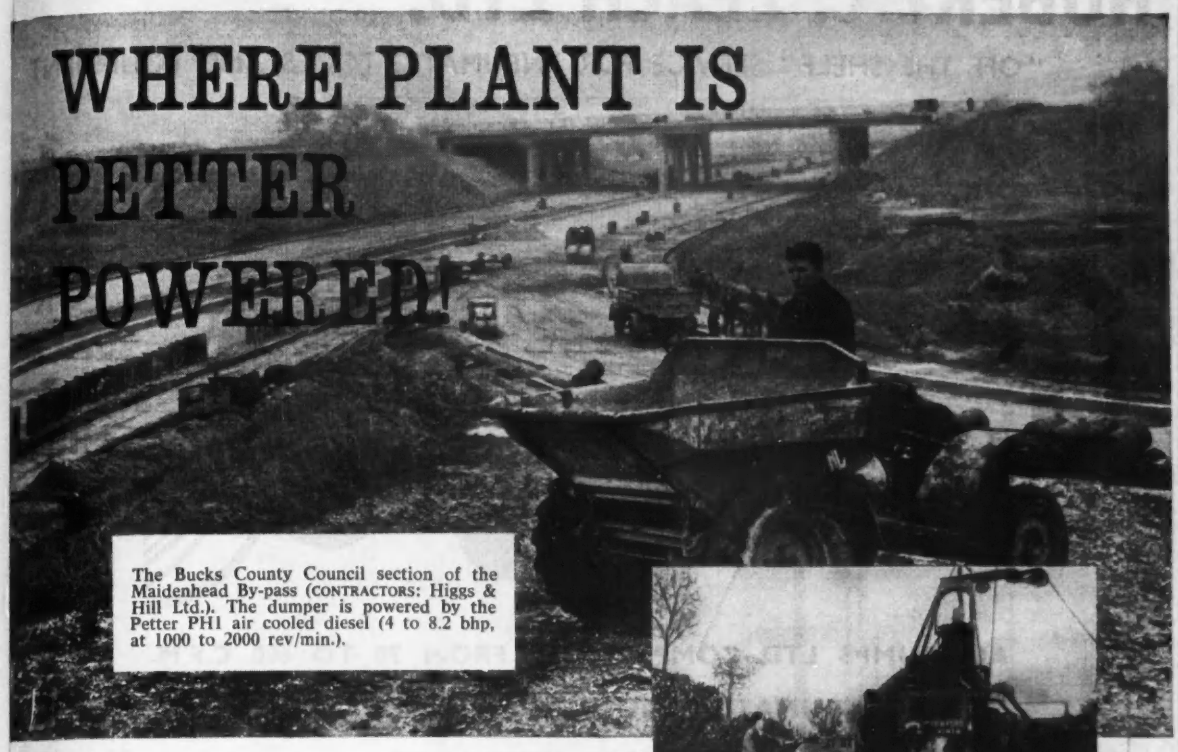
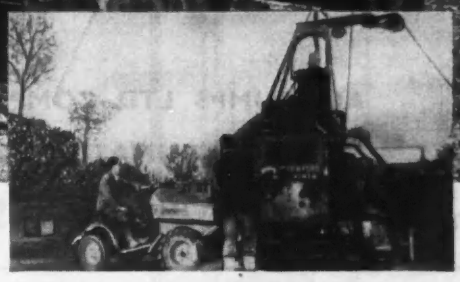


The Bucks County Council section of the Maidenhead By-pass (CONTRACTORS: Higgs & Hill Ltd.). The dumper is powered by the Petter PH1 air cooled diesel (4 to 8.2 bhp, at 1000 to 2000 rev/min.).



Here is a dumper and mixer operating on the by-pass, the former powered by a Petter PH1, the latter by an AVA2. The Bucks County Council section incorporates 3 miles of dual carriage-ways and 5 bridges. CONTRACTORS: Higgs & Hill Ltd. COUNTY SURVEYOR: E. H. Frankland, M.I.C.E., M.I. Mun.E., M.Inst. H.E.

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One of the new bridges required along Bucks County Council section of the new by-pass. On this site a vibrator roller is at work, powered by a Petter AVA2. (6 to 12 bhp at 1000 to 1800 rev/min.).

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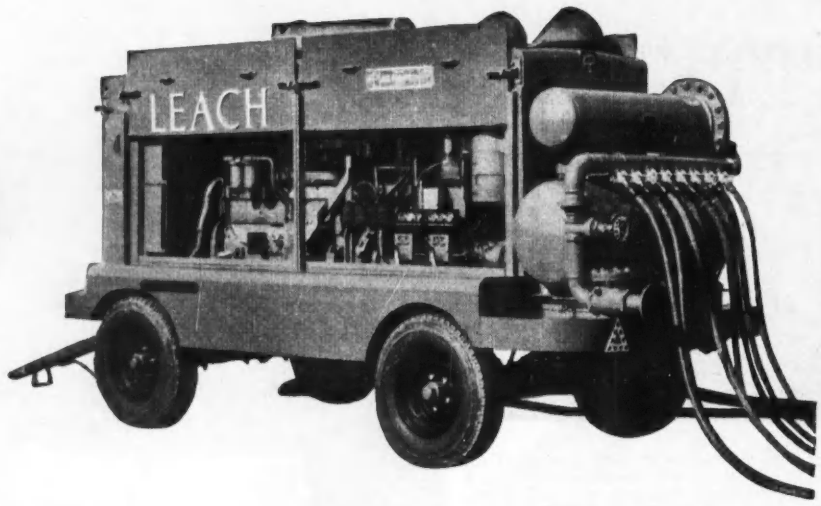

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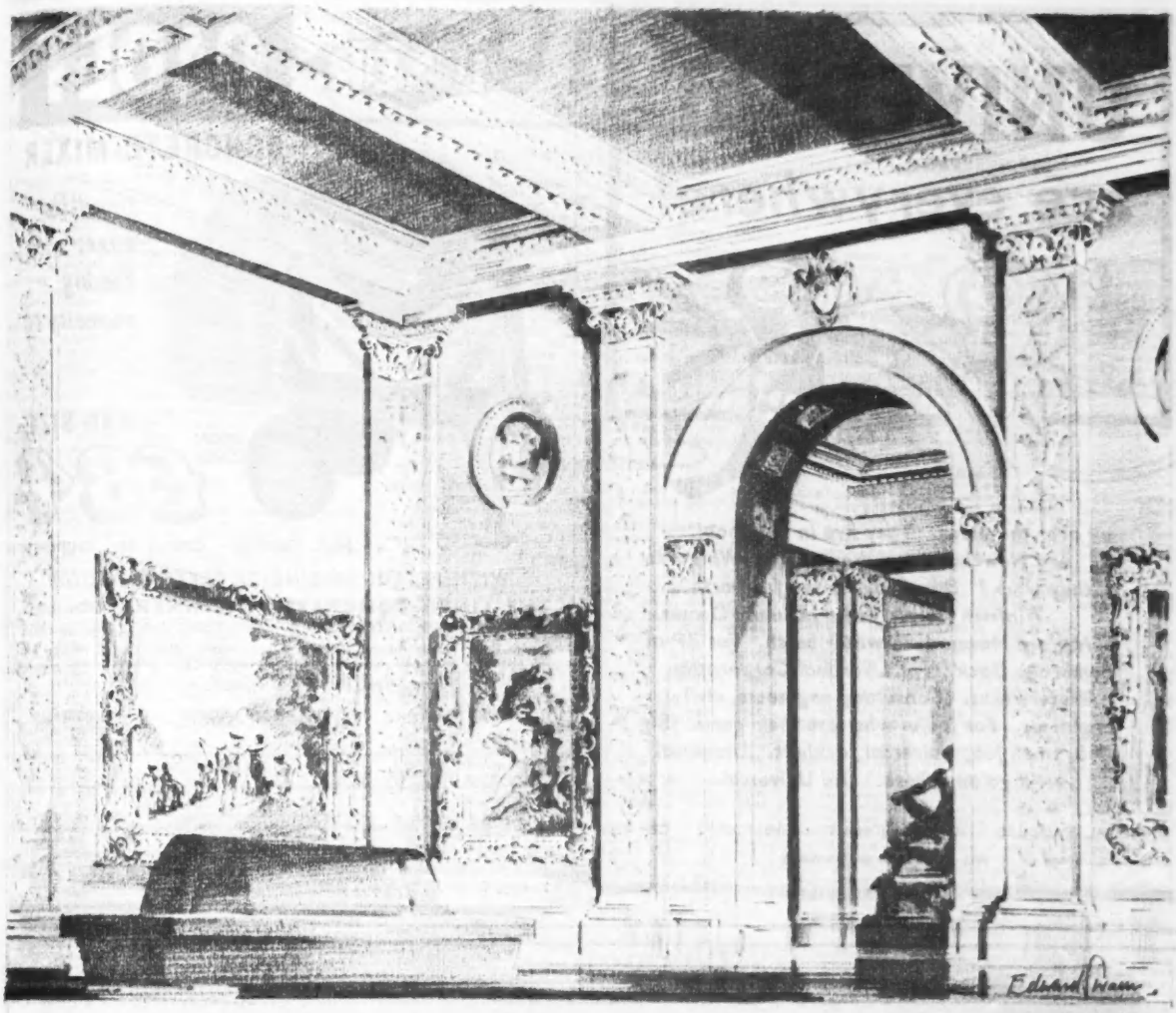

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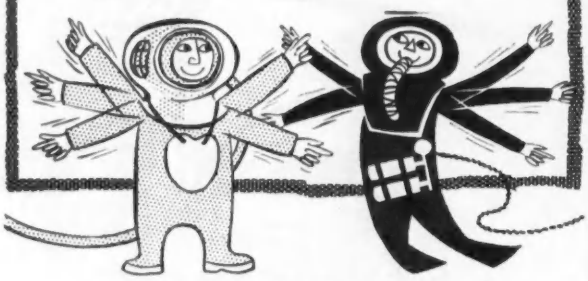

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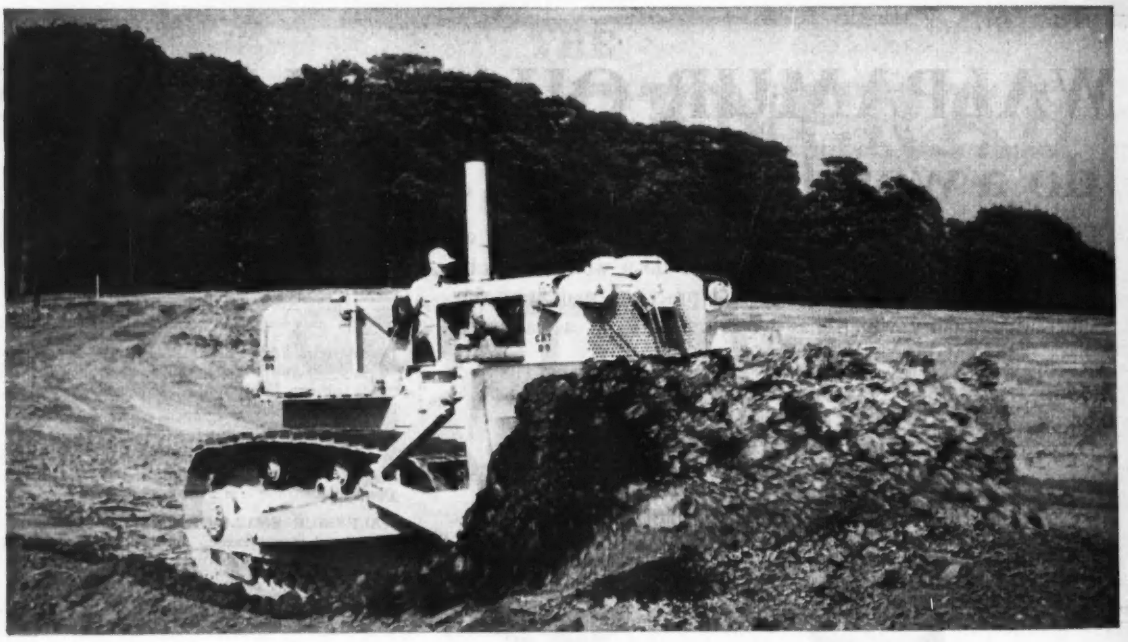

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DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRERSAND AGGREGATES, LTD., Northampton Rd Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.: and Blunham, Beds.

HARTIGAN, G. F. X., LTD. (See Buckinghamshire.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel. 59966, 53969, 50353 (night)). (See Cambs.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at: Leighton Buzzard, Bedford. Building sands.

BERKSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8, or London: VIGilant 2530.) (For details, see Leics.)

BULL BROS., S. and L., LTD., 126A High Street, Winchester. (Tel. 2264.) (See Hampshire.)

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, ashes and hoggin

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., & CO., LTD., 261a Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon (Tel.: Ewelme 20 and 37.) London Office (Tel. Uxbridge 36511/2/3). All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Cardiff Road, Reading. (Tel. 50458.) Pits at Theale. (Tel.: Theale 373.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

BRECKNOCKSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

BUCKINGHAMSHIRE

ASPHALTE CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4857 or Gerrards Cross 3496.) Manufacturers of all grades of gravel bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 391/2.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)

DANGERFIELD, F. J., & CO., LTD., 261a Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DRINKWATER, W. W., (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3). All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455), and Coronation Road, High Wycombe (Tel. 4360/1), and at Gerrards Cross. Pits at Wraysbury (Middx.), and Iver (Bucks.).

HARTIGAN, G. F. X., LTD., High Street, Newport Pagnell. (Tel. 126.) Graded and single-sized gravel aggregates to B.S.S. Pits at Newport Pagnell and Broughton, adjoining M.1 flyover.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 379.)

STUART MACEY, LTD., Gordon Road, High Wycombe (Tel.: High Wycombe 2591/2.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DICKERSON, M. (CONTRACTORS), LTD., Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) All grades washed sand and gravel, reject stone, hoggin, clinker, crushed granite, crushed and graded concrete hardcore brick rubble, ready-mixed concrete (all grades).

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site. Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel.: Cambridge 59966, 53969, 50353 (night).) Supplier, at keenest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hoggin, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.

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NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston Wellington (Tel.: 961), Salop.

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BUCKTON QUARRY, broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel.: Whaley Bridge 139.) Washed sand and gravel.

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.

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DENBIGHSHIRE

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HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385-386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

SALISBURY AND WOOD, LTD., Matlock (Tel. 272/273). Limestone and granite, dry or coated gravel and sand, kerbs, slabs, blocks, posts, reconstructed and natural stone; lime and ground limestone, lightweight aggregates, ashes, red shale.

DERBYSHIRE

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DORSET

BULL BROS., S. and L., LTD., 126A High Street, Winchester (Tel. 2264). (See Hampshire.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland cementing aggregates for reconstructed stone. By road and sea.

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MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates building sand, hoggin, path gravel.

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ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.

BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered: also hardcore ashes and bricks.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. Tel.: Coalville 1226/7/8, or London: VIGilant 2530.) (For details, see Leics.)

BUCBRICKS COMPANY, LTD., Sand and Ballast Pits, Martells, Ardleigh, Colchester. (Tel.: Ardleigh 310.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers' requirements.

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FERRIS PITS, LTD., The Limes Garage, Fenceplece Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered, also hardcore.

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HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

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PINCH, L. A. AND A., LTD., Upper Rainham Road, Elm Park, Hornchurch, Essex. (Tel.: Hornchurch 48912/3/4.) Haulage, all aggregates and excavation.

READ, P. T., LTD., Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel. St. Ives 2441/2/3/4 and Halstead 2323.) Pits at St. Ives and Gosfield, near Halstead.

STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.

WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

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BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

COKE, T. F., (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc.

CROMHALL QUARRIES, LTD., Cromhall, Wotton-under-Edge, Glos. (Tel.: Falfield 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.

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HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, roadstones, and Dolomitic media.

TAYMAC, LTD., Wootton Bassett, near Swindon, Wilts. (Tel.: Wootton Bassett 391—5 lines.) Cotswold stone, hardcore, washed and graded aggregates, building sand.

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CONTRACTORS' GUIDE TO AGGREGATES

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WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tarred and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

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BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) Concreting aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
HALL AND CO., LTD., Baltic Wharf, Marine Parade, Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Fawley. Gravel aggregate, concreting, plastering and building sand.
HASKINS, G., AND SONS, Queen Street, Emsworth. For washed sand and graded aggregates, path and road gravels, hogging, clinker, ashes. (Tel.: Emsworth 2271.)
HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.
NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.
PRIVETT, W. G., AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 7005S.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.
RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.
TWICKENHAM GRAVEL CO., LTD., Ship Lane, Farnborough (Tel. 1126); Sandhurst Road, Yateley (Tel. 2230).
WESSEX SAND AND GRAVEL CO., 126 Hillside Avenue, Southampton. (Tel. 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

HEREFORDSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalling, pitching stone, hardcore and coated macadam.
CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop (Cleehillstone 284). (See Shrops.)
HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.
OLD RADNOR TRADING CO., LTD., Kington (Tel. 421.) Granite and limestone aggregates coated macadam, concrete products.
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.
SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. Concrete aggregates, roadstones, and Dolomitic media.
WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddesdon 2456.) Producers and distributors of all grades of washed aggregates.
GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.
HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel. 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.
HARTIGAN, G. F. X., LTD. (See Buckinghamshire.)
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
TWICKENHAM GRAVEL CO., LTD., Eleanor Cross Road, Waltham Cross. (Tel. 23388.)
WEBB, G., CAMBRIDGE, 35 Magrath Av., Cambridge. (Tel. 59966, 53969, 50353 (night) (See Cambs.)
WINFIELD HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggin, building sand.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)
GRAVEL PRODUCTS (HUNTS.), LTD., Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.
HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

HUNTINGDONSHIRE

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel. 59966, 53969, 50353 (night)). (See Cambs.)

KENT

BRASTED SAND PITS, Brasted, Kent (Tel. 586). London Office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.
BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hoggin, hardcore, clinker, chalk, etc.
CLUBB, J., LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.
DIAMOND TREAD CO. (1938), LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners, tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines).
DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)
HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051); and at Folkestone and Hayes. Pits at Lunsford, near Larkfield, Riverhead. Gravel aggregates, concreting, plastering and building sand. Surecrete precision-mixed concrete.
HARRIS, M. P., AND CO., LTD., Station Road, Paddock Wood, Kent (Tel. 385). (See Sussex.)
TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)
BUCKTON QUARRY, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.
CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, near Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.
CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.
DUNNING AND SON, LTD. (See Shropshire.)
HARTLEY, JOHN W., LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all construction purposes.
HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)
HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)
KELMAC, LTD., 54 Deepdale Road, Preston, Lancashire. (Tel.: Preston 84688/9.) Bituminous, tarred and waterbound macadams. Dry roadstone, sized and graded limestone aggregates. All to B.S. and M. of T. Specifications.
PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Liverpool and Preston Depots:
Office: 7 Picton Road, Liverpool, 15.
(Tel.: Sefton Park 7261.)
Manchester Depot:
Office: Cornbrook Road, Manchester, 15.
(Tel.: Trafford Park 3830.)
TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs (Tel.: Hales 261/2/3.) (See Staffs. for details.)
TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.
WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.
X.L. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office—VIGilant 2530.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt rail/road delivery.
CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)
ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel. 20891.) Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)
HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)
HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
MOUNTSORREL GRANITE CO., LTD., 21 New Walk, Leicester. (Tel. 20891.) Quarries at Mountsorrel, near Loughborough. ⅜in. pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)
WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)
WREAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pit—Rotherby 205 or head office Melton 2488.) All grades washed aggregates and sand, transit mixed concrete

LINCOLNSHIRE

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 2322.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex quarries or delivered.
DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)
EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castledyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.
GIBBONS, F. B., AND SONS, LTD., Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Langtoft, near Peterborough. (Tel.: Market Deeping 2210.) All grades washed sand and aggregates.
HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)
HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northants.)
POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, 'phone Market Deeping 3132.
TRENTFORD GRAVELS, LTD., Head Office: Deansgrove, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
BUCBRICKS COMPANY, LTD., 57 Piazza Chambers, Covent Garden, London, W.C.2. (Tel.: Covent Garden 0534.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers' requirements.
COX, H., AND SONS, LTD., 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 2215—3 lines.)
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMpstead 8044-8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex London stock.
DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)
DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLAdstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)
GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.
GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.
HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.
HARTIGAN, G. F. X., LTD. Washed sharp sand to B.S.S. 882. (See Buckinghamshire.)
KEEN, W. J., AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballasts, shingle and hardcore supplied.
LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.
READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)
SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

MIDDLESEX

CROSS, GEO. C., AND CO., LTD., Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Concrete aggregates, hardcore, excavations, demolitions.
DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd., Hounslow Hth., Middx. (Hounslow 6222/3.)
GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.
GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.
GRUNDON, S., 100/104 Harlington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 36511/2/3.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.
HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at Ashford and Brentford. Pits: Bedfont and Shepperton. Gravel aggregates, concreting, plastering and building sand.
LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.
TWICKENHAM GRAVEL CO., LTD., Feltham Hill Road, Hanworth. (Tel.: Feltham 2638.)
READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready-mixed concrete. Pits: Edmonton Gravel Pit, Montagu Road, N.9 (Tel.: Shoreditch 9128/9), and Fairlop Airfield, Forest Road, Ilford (Tel.: Hainault 6111/2).
STUART MACEY, LTD., Gordon Rd., High Wycombe. (Tel.: High Wycombe 2591/2.)

CONTRACTORS' GUIDE TO AGGREGATES

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 421.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metalling, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.).

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Crieford, Glos. (Tel. 3158/9). (See Gloucestershire.)

MONTGOMERYSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel roadstone, washed sharp and fine sands.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4 and Coney Weston 12.) Pits at St. Ives and Knettishall, near Thetford.

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Snetterton. Concrete aggregates, building sand.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley Bicester, Oxon. (Tel.: Stratton Audley 391/2.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345). All grades of washed and graded aggregates to B.S.S., building sand, hardcore.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone roadstone, hardcore, broken stone, ashes, sand, gravel and hoggin. Immediate delivery throughout Northamptonshire.

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKANESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand mortar). Prompt deliveries.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

STORTON, F. E., LTD., Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.S.

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone; dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

ENSTON BROS., Llwyn Isaf Quarry, Clynnogfawr, Caernarvon. (Tel.: Clynnogfawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Llanrwst 38.)

GWALCHMAI GRANITE QUARRY, Anglesey. Proprietors: The North Wales Construction Co., Ltd. (Tel.: Gwalchmai 292.) All sizes dry and coated granite materials, hardcore, filling, ready mixed concrete, etc.

PENMAENMAWR AND WELSH GRANITE CO., LTD. Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynnogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day: immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD. (a member of the Lunt, Comley and Pitt Group), Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., Gazette Buildings, 168 Corporation Street, Birmingham (Tel.: Central 7408), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—8 lines).

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

AIZLEWOOD, DOUGLAS E., Bow Bridge, Rotherham. (Tel.: Rotherham 2622.) Crushed and graded limestone; all grades of washed gravel and sands.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel; could be collected ex quarry or delivered.

GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme Pierrepont, Colwick, Bleasby and Newark. Other quarries throughout the country—deliveries in 21 counties. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Combined plant capacity 20,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove St., New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

NORTH NOTTS. GRAVEL CO., LTD., Bellmoor, Retford, Notts. (See Yorkshire.)

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 391/2.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20 and 37.) London Office (Tel.: Uxbridge 36511/2/3). All grades washed aggregates. Path hoggin, broken stone, building sand.

HALL AND CO., LTD., Cardiff Road, Reading. (Tel. 50458.)

HAINES, H., (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Roadstone, Cotswold building and walling stone.

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop (Cleehillstone 284). (See Shropshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 421.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

RUTLAND

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SHROPSHIRE

BALLIDON QUARRIES, LTD., Balliden, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes; coated limestone to B.S. 802 and 1621 and wetmix; large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop. (Tel.: Cleehillstone 284.) Granite stone, tarmac, chippings, filter media, setts, limestone, crushed and walling stone, gravel, sand, hardcore and ashes.

DORRINGTON SAND AND GRAVEL QUARRIES, near Shrewsbury. (Tel.: Dorrington 276.) Supplies of ready mixed concrete, building sand, washed sand, washed and crushed gravel.

DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 421.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel: Hales 261/2/3.) (See Staffordshire for dets.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

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ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex quarry and delivered.

DANGERFIELD, F. J., & CO., LTD., 216A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concreting, plastering and building sand.

WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

HALL AND CO., LTD., 34 High Street, Narberth. (Tel. 74.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel.: 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenny Quarry, Bridgend. (Tel.: Bridgend 3786.) Coated stone also available.

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SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel.: Swansea 53071.) Sand and gravel merchants, builders' merchants, Pennant Quarry owners slag, hardcore, ashes, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Briton Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Balliden, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes; coated limestone to B.S. 802 and 1621 and wetmix; large output; reliable deliveries.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity 2,000 tons per day.

DUNNING AND SON, LTD., Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

HILTON GRAVEL, LTD., Cheadle, Staffs. (Tel.: Tean 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 32196) and Stretton, Burton-on-Trent (Tel.: Burton 6061).

CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385-386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

RUGELEY GRAVEL CO., LTD., Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregates to B.S.S. Large output.

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details, see Derbyshire.)

SHIRE OAK GRAVELS, LTD., Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggin.

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

WARDLOW LIMESTONE, LTD., Cauldon Low, N. Staffs. (Tel.: Oakamoor 366.) Graded limestone for all purposes. Ground limestone.

WINDMILL SAND AND GRAVEL QUARRIES, LTD., Cannock Road, Wolverhampton. (Tel. 31108.) Concrete aggregates, plastering, building and asphalt sand. All to B.S.S.

SUFFOLK

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand; also hoggin.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DICKERSON, M. (CONTRACTORS), LTD., Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) (See Cambs.)

HALL AND CO., LTD., West End Road, Ipswich. (Tel.: Ipswich 55593/4.) Pits at Kesgrave and Homersfield, near Harleston. Gravel aggregates, concreting, plastering and building sand.

MACLAREN BROS. (KENNETT), LTD., Station Road, Kennett, Cambs. (Kentford 333/4.) (See Cambs.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4, Coney Weston 12 and Halstead 2323.) Pits at St. Ives, Knettishall, near Thetford, and Gosfield, near Halstead.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) (See Norfolk.)

WEBB, G., CAMBRIDGE, 35 Magrath Av., Cambridge. (Tel.: 59966, 53969, 50353 (night)). (See Cambs.)

SURREY

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel. 1026/7.) (See Berkshire.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Longside Sand and Ballast Pit, Thorpe, nr. Egham. (Tel.: Egham 3121.) Runfold Sand and Ballast Pit, Runfold, nr. Farnham, Surrey. (Tel.: Runfold 2020.) Producers and distributors of all grades of washed aggregates.

HALL AND CO., LTD., Victoria Wharf, Croydon. (Tel.: Croydon 4444.) Other main depots at Coulsdon, Epsom, Mitcham, Oxted, Purley, Redhill, Tadworth and Woking. Pits at Send and Redhill. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Kingston Road, Leatherhead, Surrey. (Tel.: 3497.) (See Sussex.)

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LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

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MARCO (CROYDON), LTD., Hampton Road, West Croydon. (Tel.: THOrnton Heath 4236/7/8.) All building and road aggregates.

TWICKENHAM GRAVEL CO., LTD., Government Road, Ash Vale. (Tel. 2349.)

WELLS, A. I., AND SON, LTD., Builders' Merchants, Garlands Road, Leatherhead. (Tel 3018/9.) Sand aggregates, hardcore, ashes, cement. Clinker block manufacturers.

WINTON, WM. R., LTD., Send, Woking. (Tel.: Ripley 2454/5.) All grades sand, shingle, ballast, hoggin and ashes. Clinker block manufacturers.

SUSSEX

AVANN, F., Cavendish Avenue, Eastbourne. (Tel. 4969/70.) Washed and graded ballast, sand, bricks, breeze and concrete blocks, hardcore, clinker, tarmac, etc., supplied.

HALL AND CO., LTD., 16 Chapel Road, Worthing. (Tel.: Worthing 7840) Other main depots at Bexhill, Bognor, Crowborough, East Grinstead, Eastbourne, Horsham, Hove and Seaford. Pits at Washington, Crumbles, near Eastbourne, Chichester, Rye Harbour, Midhurst, Shoreham and Portslade. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., West Station Goods Yard, Bexhill (Tel. 61); Cavendish Place, Eastbourne (Tel. 3800); Dominion Road, Worthing (Tel. 8822); Whitbread Lane, Northiam (Tel. 2211); Station Goods Yard, Haywards Heath (Tel. 1750); Crawley Road, Horsham (Tel. 3366); The Hornet, Chichester (Tel 4181). All grades aggregates, hardcore, clinker, ashes, etc.

WRIGHT, C., AND SONS, (B'TON), LTD., 19 Bristol Gardens, Brighton, 7. (Tel.: Brighton 63357 and 62406.) All-in ballast, washed and crushed shingle, sand, ashes, hardcore, chalk, bricks, etc.

WARWICKSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output reliable deliveries.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire)

HALL AND CO., LTD., 188 Lichfield Road, Four Oaks, Sutton Coldfield. (Tel.: Four Oaks 356.) Gravel aggregates, concreting, plastering, building sand.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

JUDKINS, LTD., Granite Quarries, Tuttle Hill, Nuneaton. (Tel.: Nuneaton 3411—10 lines.) All sizes washed granite aggregate, tarred and bituminous macadam. Slab mix a speciality.

KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385/386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

SHIRE OAK GRAVELS, LTD. (See Staffordshire.)

WARDLOW LIMESTONE, LTD., Cauldon Low, N. Staffs. Tel.: Oakamoor 366.) (For details, see Staffs.)

WARWICKSHIRE QUARRIES, LTD., Bedworth Road, Nuneaton. (Tel.: Coventry 67821.) Red shale, screened for roads, car parks, sports grounds, tennis courts, etc., attractive colour.

WESTMORLAND

BROOMBYS, LTD., Sandside, Milnthorpe, Westmorland. (Tel.: Milnthorpe 3251/2.) All grades washed crushed gravel sand, limestone, granite chippings, pitching, tarmacadam, rockery stone, etc.

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details, see Cumberland.)

WILTSHIRE

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel. 2264.) (See Hampshire.)

COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: 4717/4874.) (See Glos.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

WILTSHIRE

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

TAYMAC, LTD., Wootton Bassett, near Swindon, Wilts. (Tel.: Wootton Bassett 391—5 lines.) Cotswold stone, hardcore, washed and graded aggregates, building sand.

WORCESTERSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621, and wet-mix; large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop. (Cleehillstone 284.) (See Shrops.)

DUNNING AND SON, LTD. (See Shropshire.)

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385/386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington. Tel. 421.) (See Herefordshire.)

SHAKEMANTLE QUARRY CO., LTD., Cinderford, Glos. (Tel.: Cinderford 3197.) "Doura" Facing, Engineering and Common Bricks in terra-cotta, red and golden brown. (See Glos.)

YORKSHIRE

AIZLEWOOD, DOUGLAS E., Bow Bridge, Rotherham. (Tel.: Rotherham 2622.) Crushed and graded limestone; all grades of washed gravel and sands.

DENNIFF, ALAN S., LTD., Kiveton Park, nr. Sheffield. (Tel.: Kiveton 446/7/8.) Truck-mixed and pre-mixed concrete, washed and crushed gravel, concreting sand, bldg. sand, crushed and graded stone.

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel could be collected ex quarry or delivered.

HOVERINGHAM GRAVELS, LTD., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

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SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

STANLEY FERRY GRAVEL CO., LTD., Norwich Union Building, City Square, Leeds, 1. (Tel.: Leeds 26361.) Washed, crushed and natural graded sand and gravel. Supplies to specification, large daily production. Centre of Yorks. West Riding market. Pit: Wakefield.

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X.L. GRANITE (INGLETON), LTD., Head Office: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

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THE INDEX TO DISPLAYED ADVERTISEMENTS WILL BE FOUND ON PAGE 976

London: Printed and published by the Proprietors, The Contract Journal Company, Ltd., 32 Southwark Bridge Road, S.E.1. Thursday, May 25, 1961. Registered at the General Post Office as a newspaper.

A NEW 6 cubic yard TRUCK MIXER CHASSIS

the A.E.C. MARSHAL

A Rapier hydraulic-drive mixer, for the St. Ives Sand & Gravel Co. Ltd., Hunts.

TOUGH, RUGGED, ECONOMICAL Among the outstanding advantages of the A.E.C. 'Marshal' 6-wheel chassis is its ability to take a fully laden 6 cu. yd. truck mixer on British roads. Because of its big capacity the 'Marshal' cuts down site journeys, speeds up construction and yields really worth-while operating economies.

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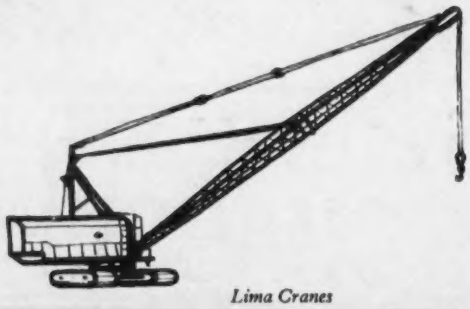
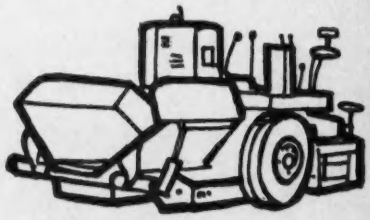


Lima Cranes



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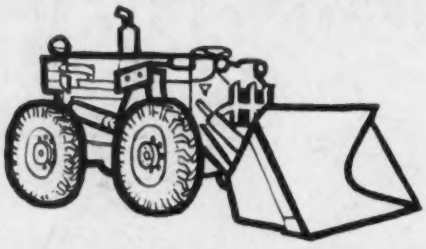
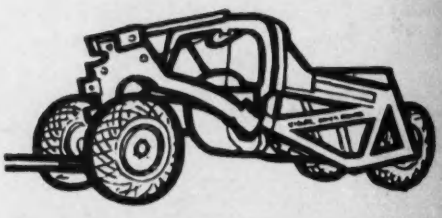


Yale Tractor Shovels



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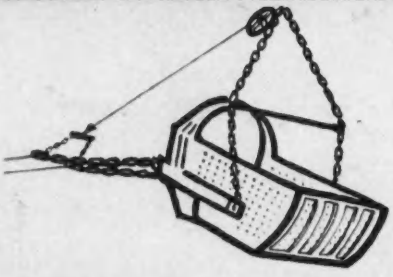
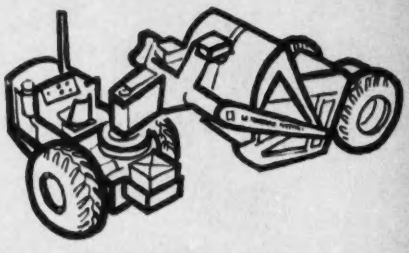


Hendrix Dragline buckets



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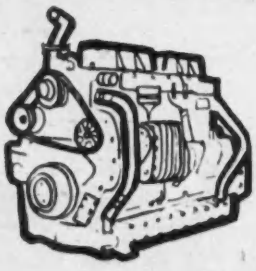

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